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Commonwealth of Massachusetts

MUNICIPAL REGISTER

OF THE

CITY OF SPRINGFIELD

FOR

—1920—

CONTAINING

CITY OFFICERS AND COMMITTEES, MAYOR'S ADDRESS, REPORTS OF THE VARIOUS OFFICERS AND COMMITTEES; ALSO, THE RECEIPTS AND EXPENDITURES FOR THE FISCAL YEAR ENDING NOVEMBER 30, 1919.

PRESS OF
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1920.

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CITY OFFICERS

FOR 1920

CITY OFFICERS FOR 1920

Mayor

ARTHUR A. ADAMS

Aldermen

JOHN J. LESTER, President

Ward 1: JOHN J. LESTER
Ward 2: EDWIN F. LEONARD
Ward 3: GEORGE EDWARD MANSFIELD, JR.
Ward 4: CHARLES A. ALLBE
Ward 5: SETH H. BARLOW
Ward 6: FRANK M. KINNEY
Ward 7: ARTHUR G. TAYLOR
Ward 8: ARTHUR ALFRED BETH

ELIJAH A. NEWELL, Clerk

Common Councilmen

ARCHER R. SIMPSON, President

Ward 1: CHARLES MCMORROW, EMIL J. ERARD
Ward 2: JOHN R. DOYLE, EUGENE J. SWEENEY, DENIS A. HOGAN
Ward 3: MAX J. BAKER, JAMES EDWARD DAVIS
Ward 4: ARCHER R. SIMPSON, FRANCIS H. BAINES
Ward 5: ELI F. MILLETT, RAYMOND B. SHATTUCK
Ward 6: FRED E. CARLISLE, LEONARD S. STEBBINS
Ward 7: FREDERICK KATTLER, AIME H. COTE
Ward 8: VICTOR N. BENGLE, THOMAS H. BENTON, VERNON D. ODETTE

GEORGE J. CLARK, Clerk

STANDING COMMITTEES OF THE CITY COUNCIL

COMMITTEES OF THE BOARD OF ALDERMEN

Enrollment—Aldermen Mansfield, Jr., Leonard and Lester.
Elections and Returns—Aldermen Allbe, Lester and Taylor.
Ordinances—Aldermen Lester, Beth and Mansfield, Jr.
Poles and Wires—Aldermen Barlow, Kinney and Taylor.
Itinerant Venders' Licenses—The Mayor and Aldermen Allbe and Beth.
State and Military Aid—The Mayor and Aldermen Taylor and Allbe.
Rules of the Road—Aldermen Barlow, Leonard and Kinney.

COMMITTEES OF THE COMMON COUNCIL

Ordinances—Councilmen Kattler, Cote and Sweeney.
Enrollment—Councilmen Millett, Stebbins and Baines.
Elections and Returns—Councilmen Benton, Davis and Shattuck.

JOINT STANDING COMMITTEES

Finance—The Mayor, Alderman Taylor, the President of the Common Council and Councilmen Bengle and Doyle.

City Property—Aldermen Leonard and Beth, Councilmen Kattler, Millett and McMorrow.

Fire Department—Aldermen Allbe and Taylor, Councilmen Baker, Benton and Stebbins.

Pauper Department—Aldermen Mansfield, Jr., and Kinney, Councilmen Baines, Stebbins and Sweeney.

Printing—The Mayor, President of the Common Council and Councilman Cote.

Board on Claims—The Mayor, Alderman Mansfield, Jr., and the President of the Common Council.

Supervisors of the Department of Streets and Engineering—The Mayor, Alderman Barlow and Councilman Erard.

Firearms—Aldermen Kinney and Leonard, Councilmen Baker, Shattuck and Hogan.

Revision of Ordinances—Aldermen Allbe and Leonard, Councilmen Odette, Baker and Davis.

Mayor's Messages—Aldermen Lester and Barlow, Councilmen Davis, Carlisle, and Sweeney.

City Realty—Aldermen Beth and Mansfield, Jr., Councilmen Benton, Carlisle and Hogan.

Signs—Alderman Mansfield, Jr., Councilmen Odette and McMorrow.

Municipal Market—Alderman Mansfield Jr., Councilmen Odette and Carlisle.

CITY CLERK—Elijah A. Newell.

ASSISTANT CITY CLERK—Clifford F. Smith.

CLERICAL ASSISTANTS—Cora B. Haskell, Carrie M. Riley, Ida M. Sword, Agnes M. P. Sheehan, Alice G. Weymouth, Doris Lampson.

CITY TREASURER—Eliphalet T. Tifft.

TREASURER'S DEPUTY—John P. Bishop.

PAYMASTER—George W. Rice, Jr.

CLERICAL ASSISTANTS—Margaret E. McCaughan, Gertrude F. Little, M. Agnes Mansfield, Francis E. J. Callaghan.

CITY AUDITOR—Clifford E. Cook.

CLERICAL ASSISTANTS—Alice E. Hathaway, Isabelle Hicks, Gertrude Rowland, Helen V. Chase, May Taylor, May Otto.

CITY COLLECTOR—Charles A. Frazer.

DEPUTY COLLECTORS—Ralph L. Munn, Leone C. Johnson, Hazel M. Berard.

CLERICAL ASSISTANTS—Mabel R. Balderson, Bertha L. Davis, Marion E. Jones, Helen E. Mansfield, Madelyn G. Moore, Helen L. Mullen, Alice E. Royce, Marion Wheelock, M. Louise Williams.

OUTSIDE DEPUTY TAX COLLECTORS—Henry E. Fournier, Ralph S. Bath, William H. Carrigan.

ASSESSORS—Albert C. Lane, William E. Sanderson, George E. Mansfield, Jr.

ASSISTANT ASSESSORS—Charles E. Murray, John W. Holton, Arthur S. Burt, William J. Murphy, Bernal H. Adams, James J. Griffin, John W. Culver, Albert P. Eaton, John A. Fitzgerald, Adelard N. Bengle, Thomas J. Moriarty, and Ralph S. Bath.

CLERICAL ASSISTANTS—Mary R. Smith, Mabel C. Bemis, A. Evelyn Jewell, Minnie L. Barrett, Buena V. Barrett, M. Ethel Matthews.

SOLDIERS' RELIEF COMMISSIONER—George A. Roberts.

OVERSEERS OF THE POOR—The Mayor, Dr. William J. Leonard, J. Stuart Kirkham, William R. Thacker, Christopher G. Simpson.

AGENT—Edward I. White.

ASSISTANT AGENT—Arthur A. Call.

CLERK AND BOOKKEEPER—Jennie S. Lombard.

CLERICAL ASSISTANTS—Mary M. Doubleday, Rose A. Keefe.

WELFARE NURSE—Mary D. Otis.

SUPERINTENDENT OF ALMSHOUSE—Lyman W. Sexton.

CITY PHYSICIAN—Dr. William J. Leonard.

CITY SOLICITOR—Edward T. Broadhurst.

ASSISTANT CITY SOLICITOR—Harold P. Small.

CITY PROSECUTING ATTORNEY—Josiah Dearborn.

MAYOR'S CLERK—Elizabeth H. Clark.

SUPERINTENDENT OF PUBLIC BUILDINGS—Hiram L. Dorman.

MESSENGER—James H. Lay.

SUPERINTENDENT OF THE DEPARTMENT OF STREETS AND ENGINEERING—Robert P. Marsh.

DEPUTY SUPERINTENDENT OF STREETS—Arthur H. Woodward.

DEPUTY SUPERINTENDENT OF SEWERS—Howard O. Buck.

DEPUTY SUPERINTENDENT OF STREET LIGHTING—William E. Hodge.

DEPUTY CITY ENGINEER—Charles M. Slocum.

BOARD OF HEALTH—Philip V. Erard, Chairman, George Rochford, Dr. Edgar H. Guild, Health Physician.

AGENT AND CLERK OF THE BOARD OF HEALTH—William L. Young.

CHIEF CLERK—Grace E. Warren.

OFFICE CLERKS—Mary E. MacDonnell, Anna C. O'Connell, Belle Lytle.

SANITARY INSPECTORS—Jacob R. Sackett, Chief, Wm. J. Hassett, Henry Wright, Jr., Alger P. Blaine, Wm. F. Boyle and Daniel J. Mahoney.

SMOKE INSPECTOR—Dustin L. Tice.

SUPERINTENDENT OF SCHOOLS—James H. Van Sickle.

SUPERINTENDENT'S CLERK—Fred L. Ward.

SCHOOL COMMITTEE—The Mayor; at large, Newton M. Hall; Ward One, Wayland V. James; Ward Two, Henry L. Hirsch; Ward Three, Edward M. Porter; Ward Four, Jeanne J. Starr; Ward Five, Charles H. Angell; Ward Six, Franklin A. Latimer; Ward Seven, George H. Foss; Ward Eight, George H. Howard.

ATTENDANCE OFFICER—John A. Parker.

ASSISTANT ATTENDANCE OFFICERS—Harry A. Killmer, Leonard W. Knight and Harry E. Handy.

SEALER OF WEIGHTS AND MEASURES—William Foster.

DEPUTY SEALERS OF WEIGHTS AND MEASURES—Ralph H. O'Malley, Charles B. Kingsbury.

INSPECTOR OF MILK—Stephen C. Downs.

ASSISTANT INSPECTOR OF MILK—Fred L. Robertson.

INSPECTOR OF VINEGAR—Stephen C. Downs.

INSPECTOR OF ANIMALS—Harry Lukes.

INSPECTOR OF PETROLEUM—George H. Powers.

SUPERVISOR OF SOLDIERS' AND SAILORS' GRAVES—John C. Condon.

BUILDING COMMISSIONER—Fred W. Lumis.

BUILDING INSPECTORS—Daniel W. Campbell, Leigh Ferry Morgan.

PLUMBING INSPECTOR—Frank W. Tower.

ASSISTANT PLUMBING INSPECTOR—Ernest G. Bates.

INSPECTOR OF GAS FITTING—Fred A. Bicknell.

INSPECTOR OF WIRES WITHIN BUILDINGS—Allen W. Hopkins.

ASSISTANT INSPECTORS OF WIRES WITHIN BUILDINGS—John F. Shea, Wilbur Chauncey Field.

INSPECTOR OF ELEVATORS—Wm. F. Schrader.

CLERK OF BUILDING DEPARTMENT—Alice Ferguson.

BOARD OF APPEAL—George C. Gardner, Thomas J. O'Brien, Daniel W. Mellen.

FISH WARDEN—James P. Hatch.

WATER COMMISSIONERS—The Mayor, Edwin A. Blodgett, Dr. George L. Fenn.

CHIEF ENGINEER OF WATER WORKS—Elbert E. Lochridge.

SUPERINTENDENT OF WATER WORKS—A. E. Martin.

WATER REGISTRAR—Alfred R. Hathaway.

BOARD OF PUBLIC WORKS—Claudius C. Margerum, Frank G. Tobey, Napoleon E. Russell.

BOARD OF REGISTRARS OF VOTERS—John W. Nolan, Stephen F. Bible, Warren P. Underwood, E. A. Newell, Clerk.

ASSISTANT REGISTRARS OF VOTERS—Edwin R. Spaulding, Michael J. Madden.

CLERICAL ASSISTANTS—Edith M. Ware, Julia A. M. O'Brien.

FIRE COMMISSIONERS—Wm. W. Tapley, Charles B. Hitchcock, Edwards O. Davis, Thomas J. Sheridan, Charles A. Allbe.

ENGINEERS OF THE FIRE DEPARTMENT—Chief, William H. Daggett; Deputy Chief, Everett A. Kimball; District Chiefs, Burton Steere, John R. Graves, Arthur H. Strong, Clarence E. Gesner; Superintendent of Fire Alarm, Herbert H. Berry.

PARK COMMISSIONERS—Stanhope E. Blunt, Nathan D. Bill, Theodor R. Geisel, Charles Adams, Dwight R. Winter.

PARK SUPERINTENDENT—Charles E. Ladd.

COMMISSIONERS OF SINKING FUNDS—Robert O. Morris, A. B. Wallace, A. Willard Damon.

LICENSE COMMISSIONERS—William M. Stevenson, Hugh J. Donnelly, George G. Tait.

POLICE DEPARTMENT.

POLICE COMMISSIONERS—Charles F. Spellman, *Chairman*, Silvio Martinelli, Phelps Brown.

CHIEF OF POLICE—William J. Quilty.

DEPUTY CHIEF OF POLICE—Henry M. Perkins.

CAPTAIN OF DETECTIVES—Frank W. Quilty.

CAPTAINS—Martin P. Costello, Charles A. Wade, Edgar A. Littlefield.

DETECTIVE LIEUTENANTS—John St. Ledger, James T. Raiche, James M. Daly, George H. Norris, Daniel F. McCarthy, John A. McNeil, Joseph A. Murphy, Ernest P. Marble, Joseph D. Powers, Patrick J. Fenton, Matthew J. Meade.

LIEUTENANTS—Michael J. O'Brien, Michael Kennedy.

SERGENATS—Frederick L. Thayer, Daniel J. Twohig, John L. Maloney, Harley H. Blodgett, John A. Swift, Patrick J. O'Connor, Michael F. Egan, Edwin C. Holbrook, John F. Donoghue, Frederick J. Runnells, John H. Dunleavy, Thomas Moriarty, William J. Hurley.

MATRONS—Mrs. Delia E. Flanagan, Mrs. Katherine Sheehan.

DEPARTMENT CLERK—Anna A. Kelliher.

POLICE OFFICERS.

NIGHT AND DAY WATCHMEN.

James W. Murtagh,
Michael C. Quinlivan,
Charles H. O'Connell,
Ward E. Maranville,
Albert H. Shaw,
James J. Donovan,
Edward P. Tilton,
Patrick Keefe,
Simon J. Connery,
Ovila L. Huot,
William J. Grady,
Timothy J. Hallahan,
Charles W. Geary,
John F. Bacon,
James F. Dagnan,
Alexander Gray,
Patrick Lynch,
John P. Sullivan,
Llewellyn D. Carey,
William F. Goldrick,
Michael F. Sullivan,
Edward Carey,
Horace G. Clark
Frederick P. Smith,
George F. Russell,
James A. Dowling,
James H. O'Brien,
Durham N. Pepin,
Clarence E. Bradway,
James J. Collins,
Bernard J. F. Bergren,
Peter H. Walsh,
William S. Bates,
John LaFond,
John A. Hamberg,
John A. Driscoll,
Charles Martens,
Perley J. Hewey,
William J. Hogan,
George E. Lynch,
Michael J. Flannery,
Howard F. Tourtellotte,
Edward J. Slattery,
Michael J. Curley,
Arthur H. Carrigg,
Jeremiah B. O'Leary,
Charles Hanlon,
John Hayes,
Patrick J. Keane,
Thomas F. Connery,
Louis H. Pilon,
Eugene F. Kelleher,
James P. Gray,
Thomas L. Kavanaugh,
Mathew P. Ryan,
William F. Lonergan,
James J. Moylan,

John H. St. Ledger,
John B. Carrigg,
Peter J. Mara,
Frederick Cullen,
Thomas C. Fleming,
John C. Driscoll,
Cornelius P. Brosnan,
Charles C. Learned,
Michael J. O'Brien,
Lovell S. Spaulding,
John J. Maloney,
Arthur E. Clifford,
Edward D. Pepin,
Fred A. Champous,
Ralph J. Carleton,
John J. Donlin,
Ernest C. LaFleur,
James W. Pease,
Owen C. V. Sloan,
John H. McDonald,
George N. Riley,
John F. Hurley,
Harry R. Button,
Lyman B. Bullock,
Ward C. Maranville,
John J. Crowley,
John P. Driscoll,
Arthur H. Parker,
James B. Kemple,
Thomas F.Murphy,
William F. Edmonds,
George F. Henry, Jr.,
James G. Taylor,
Cornelius F. Dowd,
Daniel J. Long,
Albert J. Tessier,
Raymond F. Connelly,
Thomas F. French,
Frank J. McNeill,
Peter McLelland,
John J. Long,
Philip E. Burke,
Neil Bryson,
Mitchel Frappier,
Ellsworth C. Myers,
Edward F. Cullinan,
Charles J. Murphy,
John P. Cleary,
John P. Fleming,
Louis C. Miller,
James J. Scanlon,
Charles G. O'Malley,
Lawrence V. Malone,
Patrick Lovett,
Michael F. Clancy,
Charles M. Feeney,
John Lamondia,
Rolla C. King,
Edward L. Keating,
William J. Wall,
Paul H. Rice,
Patrick M. Hurley,
Patrick H. Meleady,
Edgar P. Tanguay,
Wm. H. Connor,
George W. Bicknell,
Harry D. Foley,
John J. Maher,
John W. Harrington,
Alexander S. A. Ross,
Percy F. Laming,
Victor M. Tetrault,
Hugh J. Daley,
Alfred H. Penfield,
Charles W. Stetson,
Dennis M. Lynch,
Thomas H. Tuohey,
Eugene McCarthy,
Charles T. Long,
Daniel W. Spellacy,
John F. Meaney,
Walter C. Eaton,
Lawrence P. Canning,
William C. Sullivan,
Ernest G. Tourtellotte,
Michael O'Connell,
Patrick J. Kenny,
Daniel M. Keyes.

POLICEWOMEN.

Mary F. Lathrop, H. Elizabeth O'Connor.

RESERVEMEN.

Harold W. Poehler,
Leon A. Maloney,
Eugene O'Connor,
Thomas C. St. Ledger,
Jeremiah J. Hurley,
William J. Pouliot,
Joseph A. Burke,
William M. Sullivan,
Christopher J. Aspail,
James Moriarty.

MAYOR'S ADDRESS.

MAYOR'S MESSAGE

Gentlemen of the City Council:

We meet today in accordance with the provisions of the City Charter to assume the responsibilities which have been entrusted to us by election of the people and we should appreciate that the offices we occupy are honorable and are given to us with the expectation of unselfish service in the city's interest.

Our citizens are burdened, as never before, with high living costs and high federal, state and municipal taxes, direct results of the World War, and every effort should be made to adopt measures correcting the results of the withdrawal from productive industry, of the men of the army, the navy, and the marines. Some of the remedies suggested are the practice of industry and the suspension of extravagant expenditures and our city may well follow these suggestions in the operations of the several departments in our charge. It should be understood, however, that those things essential to the welfare of the city must be performed.

During the past year the returned service men have been assisted by the city and by various organizations to obtain again useful, congenial, and profitable occupation and at present it is believed that practically all such men have been provided with positions. Their situation was materially helped by the shortage of labor which has obtained since the middle of last summer.

I shall very briefly refer to the finances of the city and the needs of some of the city departments but you are urged to study the departmental reports in order thoroughly to familiarize yourselves with the detailed information contained therein.

FINANCES.

The value of real estate, resident bank shares and personal property last taxed for current expenses was $207,382,870 and our city now stands third among the cities of the commonwealth in the amount of taxable property.

During the past year bonds totaling $1,377,000 have been issued and sold which include $700,000 for the widening and extension of Dwight

street, $50,000 for storm sewer construction and $627,000 for additions to the Homer street, Chestnut street, and Forest Park schools.

The total debt paid during the year was $428,000, leaving bonded indebtedness November 30, 1919, of $9,975,500, which compares with $9,026,500 the year previously.

Sinking funds amounting to $1,164,773 are available to reduce this debt at the maturities of the bonds.

The amount of money which can be borrowed within statutory limit, based upon our average valuation for the last three years, is $1,246,315, which is $304,744 less than that of the previous year.

Borrowing within this limit will probably be necessary during the year for the widening and extending of Dwight street. While this work was estimated in 1917 to cost $1,500,000 and provision was made by special legislation for financing that amount outside the debt limit, the cost has already exceeded the estimate and it will be necessary to issue bonds to the amount of $250,000 to $300,000 to meet the final costs.

The total amount of betterments assessed on account of the widening and extension of Dwight street was about $582,000, of which approximately $438,000 was assessed upon lands of owners who have filed petitions in the superior court to have the assessments reduced by a jury. Probably very few of the betterment cases will be tried and decided before next fall so it would not be safe to assume that a sufficient sum will be collected during the current fiscal year on betterments in litigation, to avoid the final bond issue.

SCHOOLS.

The building program for the School Department will include the construction of a vocational school to take the place of the building now used for that purpose on Pynchon street which must be removed in connection with the extension southerly of Broadway already ordered by the City Council, and should in addition include the demolition of the present and construction of a modern and appropriate junior high school on State street westerly of the Central High School. The building now used as a junior high school was erected in 1874 and is absolutely unsuitable for the purpose.

These two projects will cost approximately a half million dollars and the construction of other school buildings although needed may properly be postponed.

FIRE AND POLICE DEPARTMENTS.

The Fire Department needs a new station to replace the present Chestnut street station and improvements are desired in the Oakland and Armory street stations.

The location of the Chestnut street house is dependent upon the opening of a new thoroughfare easterly of Chestnut street, concerning which the report of the Board of Public Works and City Council action thereon are awaited, but postponing the construction of this building much longer may seriously affect the efficiency of the Department.

The Police Department needs an addition to the Police building to be used by officials of that department and by court officers. The building would be erected upon Pynchon street and should harmonize in respect to floor grades, and with the change in grade of that street necessary to conform with the plans for the new bridge over the Connecticut River.

STREETS, SEWERS, AND PARKS.

The street construction program will be comparatively simple during the coming year as our streets in general are in satisfactory condition. There are always certain streets, though fortunately not the same ones, which appear each year as meriting surface improvement and it is assured that with reasonable appropriation for expenditure the Supervisors will plan their work in accordance with the needs of the community.

Considerable sewer construction will be necessary during the season of 1920 to provide drainage facilities for several sections of the city which have recently been developed. Continuation of storm water sewer construction to drain the territory westerly of Carlisle brook valley and northerly of State street is desirable and there will be available for expenditure for this work this year the sum of $20,776, which is the unexpended balance of an appropriation of $50,000 raised in 1919 by issuing bonds.

Parks add greatly to the attractiveness of a city and they furnish means for wholesome recreation and enjoyment. We are proud of our park system and may well take satisfaction in the improvements made in them each year. The improvement of the surrroundings of Porter Lake created last year by building a dam across Pecousic Valley will add greatly to the beauties of the locality.

OUR FUTURE AND SOME OF ITS PROBLEMS.

Based upon information at hand I believe Springfield is destined to have unprecedented industrial growth during the next few years. During the past year a number of new manufacturing industries have located here and others are already seeking locations and we realize that properly financed and stable industries should be encouraged to come here.

This growth presents two problems, however, namely, housing and transportation. The former will necessarily be left to private enterprise to adjust, but street extensions necessitated thereby should be provided by the city.

Transportation, however, is a municipal problem, in so far as we permit competition which deprives the Street Railway Company of revenue which might properly be applied toward track extensions. This competition consists of motor busses and jitneys and while they serve to transport passengers over short distances they do not at present provide transportation over the long routes nor have they furnished continuous or satisfactory service during bad weather.

Unfortunately, the committee of the City Council appointed late last year to investigate and report upon this complex problem has not had sufficient time to complete its work. The committee has had a number of hearings and is now seeking information elsewhere and is to be commended for the thorough and fair-minded way in which it has approached the problem.

It is recommended that this committee be continued with the same membership in order that the city may have the advantage of their experience. An early and constructive report is urged as the situation is critical and warrants the best and most careful consideration of the City Council.

THE PROPOSED CONNECTICUT RIVER BRIDGE.

Circumstances not under the control of the city have delayed the progress of the Connecticut River bridge to such an extent that no actual construction operations have commenced.

It was expected that plans for this bridge would be filed with the Court by the Bridge Commission during the early part of last year and that active operations would start immediately thereafter. The plans were filed last fall, followed almost immediately by court proceedings by the City of Holyoke to have the apportionment of costs as affecting Hol-

yoke set aside. Westfield has now taken similar action and until the court has rendered a decision no actual progress can be made.

Costs of construction have risen rapidly during the past few months and the additional cost due to these delays will undoubtedly amount to a half million dollars.

CONCLUSION.

Gentlemen, we are about to assume our official duties and may we resolve that our official actions and decisions shall agree with the highest ideals of American citizenship.

ARTHUR A. ADAMS,
Mayor.

January 5, 1920.

REPORT

OF THE

SCHOOL BOARD

OF THE

CITY OF SPRINGFIELD,
MASSACHUSETTS

1919

REPORT

OF THE

SCHOOL BOARD

OF THE

CITY OF SPRINGFIELD,
MASSACHUSETTS

1919

SCHOOL BOARD FOR 1920

ARTHUR A. ADAMS, MAYOR,
CHAIRMAN, *ex officio.*

TERM EXPIRES.

AT LARGE.—NEWTON M. HALL, Dec. 31, 1921
19 Elliott Street.

WARD 1.—WAYLAND V. JAMES, Dec. 31, 1921
VICE-CHAIRMAN,
69 Waverly Street.
Business Address, 381 Main Street.

WARD 2.—HENRY L. HIRSCH,. Dec. 31, 1921
Business Address, 310 Main Street.

WARD 3.—EDWARD M. PORTER, Dec. 31, 1922
40 High Street.
Business Address, Room 204, Third National Bank Building.

WARD 4.—MRS. JEANNE J. STARR, Dec. 31, 1922
130 Mulberry Street.

WARD 5.—CHARLES H. ANGELL, Dec. 31, 1922
11 Ingersoll Grove.
Business Address, 500 Main Street.

WARD 6.—FRANKLIN A. LATIMER, Dec. 31, 1920
36 Beechwood Avenue.
Business Address, 310 Main Street.

WARD 7.—GEORGE H. FOSS, Dec. 31, 1920
530 Sumner Avenue.
Business Address, 10 Chestnut Street.

WARD 8.—GEORGE H. HOWARD, Dec. 31, 1920
820 State Street.

SECRETARY,
BERTHA M. McCONKEY,
115 High Street.

SUPERINTENDENT OF SCHOOLS,
JAMES H. VAN SICKLE,
Administration Building. Office hours: School days, from 12 M. to 1 P. M.; Saturdays, from 10 A. M. to 1 P. M.

ASSISTANT SUPERINTENDENT OF SCHOOLS,
ELEMENTARY SCHOOLS AND KINDERGARTENS,
BERTHA M. McCONKEY,
Administration Building. Office hours: School days, from 12 M. to 1 P. M.; Saturdays, from 11 A. M. to 1 P. M.

CHIEF CLERK,
FRED L. WARD,
Administration Building. Office hours: 8.30 A. M. to 5 P. M.; Saturdays, 8.30 A. M. to 1 P. M.

CLERKS,

EDWINA A. MILLER,
CHARLES A. H. PARKER,
MARY E. BRENNAN,
ADA B. CLAPP,
ANNA D. GRANT,
A. LEOTA PINNEY,
ANNA F. LEONARD,
HELEN D. FISK,
RUBIE M. PERKINS,
MARIE C. HAYES,
MURRAY R. PARKER.

SUPERINTENDENT OF PUBLIC BUILDINGS,
HIRAM L. DORMAN,
Administration Building. Office hours: 10.30 to 11.30 A. M. and 4 to 5 P. M.

CLERKS,
FRANK J. DOWNEY,
CATHERINE E. GOGGIN.

ATTENDANCE OFFICER,
JOHN A. PARKER,

ASSISTANTS,
HARRY A. KILLMER,
LEONARD W. KNIGHT,
HARRY E. HANDY,
Administration Building. Office hour: 12.30 to 1.30 P. M.

SPECIAL COMMITTEES FOR 1920

Finance—The Mayor, Mr. Latimer, and Mr. James.
Text-Books and Supplies—Prof. Howard, Mr. Latimer, and Mr. Porter.
Central High School—Dr. Hall, Dr. Hirsch, and Prof. Howard.
Technical High School—Mr. James, Mr. Porter, and Dr. Foss.
High School of Commerce—Mr. Latimer, Mr. Porter, and Mr. Angell.
Evening Schools—Dr. Foss, Mr. Angell, and Mrs. Starr.
Industrial Schools and Manual Training—Mr. Latimer, Mr. James, and Dr. Hirsch.
Kindergartens—Mr. Porter, Mr. Angell, and Mrs. Starr.
Physical Training and Hygiene—Dr. Hirsch, Dr. Foss, and Mr. Porter.
Music—Mr. Porter, Dr. Foss, and Mrs. Starr.
Household Science and Art—Mrs. Starr, Prof. Howard, and Dr. Hall.
New Buildings—Dr. Hall, Dr. Foss, and Mr. Angell.
Salaries—Dr. Hall, Mr. James, and Mr. Latimer.
Ward One Group of Schools—Brightwood, Chestnut street, Glenwood, Jefferson avenue, and Lincoln—Mr. James.
Ward Two Group of Schools—Armory street, Carew street, Charles street, and Hooker—Dr. Hirsch.
Ward Three Group of Schools—Howard street, State street, and William street—Mr. Porter.
Ward Four Group of Schools—Alden street, Barrows, Central street, Eastern avenue, School street, and Strickland—Mrs. Starr.
Ward Five Group of Schools—Buckingham, East Union street, Tapley, and Worthington street—Mr. Angell.
Ward Six Group of Schools—Acushnet avenue, Forest Park, and Sumner avenue—Mr. Latimer.
Ward Seven Group of Schools—Kensington avenue, Washington, and White street—Dr. Foss.
Ward Eight Group of Schools—Boston Road, Dry Bridge, East Main street (Indian Orchard), Five Mile Pond, Homer street, Liberty, Myrtle street (Indian Orchard), Rushville Portable, and Sixteen Acres—Prof. Howard.

ADVISORY COMMITTEE FOR VOCATIONAL SCHOOL

METAL-WORKING DEPARTMENT.

EDWARD S. POMEROY,
Master Mechanic, Smith & Wesson.

CLARENCE W. ALLEN,
Superintendent, Springfield Machine Co.

WOOD-WORKING DEPARTMENT.

A. G. CHAPMAN,
Carpenter-Builder.

C. H. CUTLER,
Foreman, Hampden Lumber Co.

WILLIAM FOSTER,
Sealer of Weights and Measures.

PRINTING DEPARTMENT.

WALTER R. PHILLIPS,
Job Printer.

CHARLES B. PORTER,
Foreman, Printing Department, Springfield Fire & Marine Insurance Co.

WILLIAM M. LESTER,
President and Treasurer, Loring-Axtell Co.

SCHOOL CALENDAR, 1920

Winter Term begins	January 5, 1920
First Semester ends	January 23, 1920
Second Semester begins	January 26, 1920
Winter Term ends	February 20, 1920
Spring Term begins	March 1, 1920
Spring Term ends	April 23, 1920
Summer Term begins	May 3, 1920
Summer Term ends	June 25, 1920
Fall Term begins	September 7, 1920

SCHOOL HOLIDAYS

New Year's Day	January 1
Washington's Birthday	February 22
Patriots' Day	April 19
Memorial Day	May 30
Columbus Day	October 12
Thanksgiving	(Thursday and Friday)

SCHOOL SESSIONS

Elementary Schools	8.45-11.45 A. M.
	1.30-3.30 P. M.
State Street Junior High School	8.30 A. M.-2.30 P. M.
Central High School	8.30 A. M.-1.50 P. M.
High School of Commerce	8.30 A. M.-2.45 P. M.
Technical High School	8.30 A. M.-2.15 P. M.
Vocational School	8.30 A. M.-12 M.
	12.30-4 P. M.

SCHOOL SIGNALS

Two blows, five times, at 11.30 A. M.

No afternoon session of elementary and junior high schools.

ANNUAL REPORT

OF THE

SUPERINTENDENT OF SCHOOLS

To the School Board:—

STATISTICAL DATA

This report shows the enrollment, average number belonging, and average daily attendance in senior high schools, vocational school, junior high schools, elementary schools, and kindergartens, as of September 26, 1919, compared with the corresponding date for the preceding five years. (See Table I, page 10.)

The relief afforded to the high schools by the change in organization which became effective in 1917 is shown by the table. It will be noted that between 500 and 600 pupils who under the old organization would have expected transfer to the already overcrowded high schools that year were held for another year in their home schools where they completed freshman work, now known as Junior III. This is shown by the greatly reduced high school enrollment in 1917 and the corresponding increase in enrollment in the grades below.

The following table shows the enrollment in each senior high school as compared with the corresponding date for the preceding five years:—

TABLE II.

ENROLLMENT IN SENIOR HIGH SCHOOLS FOR THE FOUR WEEKS ENDING

	Sept. 26, 1919.	Sept. 27, 1918.	Sept. 28, 1917.	Oct. 27, 1916.	Sept. 24, 1915.	Sept. 25, 1914.
Central High.....	750	734	729	856	846	796
Technical High.....	697	642	662	858	911	876
High School of Commerce,..	935	864	760	968	854	690
High School of Commerce (Junior III).....	175	98	394			

The normal capacity of the Central High School is 800 pupils; of the Technical 750 pupils; and of the Commercial 1,500 pupils. In 1914, 1915, and 1916, the Central and Technical were over crowded, as the figures for those years show.

(Enrolled in Central High, 1916, 856)
(Enrolled in Technical High, 1916, 858)

TABLE I.

FIGURES TAKEN FROM REPORTS OF ATTENDANCE FOR THE FOUR WEEKS ENDING

	Sept. 26, 1919.	Increases 1919 over 1918.	Sept. 27, 1918.	Increases 1918 over 1917.	Sept. 28, 1917.	Increases 1917 over 1916.	Oct. 27, 1916.	Increases 1916 over 1915.	Sept. 24, 1915.	Increases 1915 over 1914.	Sept. 25, 1914.
Enrollment											
Senior High,*	2,382	142	2,240	89	2,151	*531*	2,682	71	2,611	249	2,362
Vocational,	130	60	70	*11*	81	5	76	*18*	94	*30*	124
Junior High,	4,052	279	3,773	*259*	4,032	1,540	14,356	485	13,871	86	13,785
Elementary,	12,113	39	12,074	210	11,864						
Kindergarten,	1,416	67	1,349	148	1,201	154	1,047	*100*	1,147	91	1,056
Total,	20,093	587	19,506	177	19,329	1,168	18,161	438	17,723	396	17,327
Average Membership											
Senior High,*	2,326.5	160.2	2,166.3	93.9	2,072.4	*554.1*	2,626.5	69.4	2,557.1	225.5	2,331.6
Vocational,	119.6	55.0	64.6	*12.1*	76.7	4.5	72.2	*23.8*	96.0	*8.1*	104.1
Junior High,	3,930.6	266.6	3,664.0	*258.6*	3,922.6	1,485.4	13,851.3	400.8	13,450.5	297.5	13,153.0
Elementary,	11,594.6	*29.8*	11,624.4	210.3	11,414.1						
Kindergarten,	1,238.3	34.8	1,203.5	130.2	1,073.3	145.6	927.7	*98.7*	1,026.4	65.4	961.0
Total,	19,209.6	486.8	18,722.8	163.7	18,559.1	1,081.4	17,477.7	347.7	17,130.0	580.3	16,549.7
Average Attendance											
Senior High,*	2,191.0	154.9	2,036.1	87.2	1,948.9	*574.2*	2,523.1	83.0	2,440.1	199.6	2,240.5
Vocational,	114.7	52.3	62.4	*6.8*	69.2	.9	68.3	*22.8*	91.1	*11.2*	102.3
Junior High,	3,714.6	278.8	3,435.8	*279.7*	3,715.5	1,217.3	13,216.3	655.1	12,561.2	37.4	12,523.8
Elementary,	10,882.2	65.5	10,816.7	98.6	10,718.1						
Kindergarten,	1,069.0	62.7	1,006.3	69.4	936.9	103.2	833.7	*60.8*	894.5	2.1	892.4
Total,	17,971.5	614.2	17,357.3	*31.3*	17,388.6	747.2	16,641.4	654.5	15,986.9	227.9	15,759.0

*Including Junior College.

From 1917 to the present time the relief afforded these schools by the 6-3-3 plan and by the High School of Commerce has been adequate. Table III affords a basis for estimating how soon additions to each of these schools will be needed.

TABLE III.

ENROLLMENT OF THE THREE UPPER CLASSES OF THE HIGH SCHOOLS OF SPRINGFIELD FOR THE FALL TERM OF EACH OF THE YEARS FROM 1910 TO 1919.

(These figures do not include any persons classified as post-graduates or junior college students.)

Year	Central	Increase	Commerce	Increase	Technical	Increase	All	Increase	Increase for periods of 3 years each	
1910	438	..	240	..	296	..	974	..	...	.....
1911	467	29	266	26	351	55	1084	110	...	.....
1912	472	5	272	6	435	84	1179	95	...	.....
1913	461	-11	314	42	499	64	1274	95	300	30.8%
1914	489	28	395	81	520	21	1404	130	...	.....
1915	563	74	532	137	556	36	1651	247	...	.....
1916	558	-5	544	12	559	3	1661	10	387	30.4%
1917	580	22	584	40	555	-4	1719	58	...	.....
1918	679	99	824	240	638	83	2141	422	...	.....
1919	716	37	935	111	690	52	2341	200	680	40.9%
Average	...	..	...	..	...	..	....	..	...	34%

The average increase for each period of three years shown by the above table is 34%. The senior high schools received a large influx of pupils in the year 1918 because of the consolidation of the ninth grade with the first year of senior high school work, but probably nearly all of this increase was offset by the loss of pupils during the period of the war. In addition, there has been a rapid increase in the population of the city during the last few years, and this has contributed to the high school enrollment for the last three-year period.

The average rate of increase for the two periods between 1910 and 1916 was 30.6% as compared with an increase of 40.9% for the period from 1916 to 1919. Assuming that the rate of increase for the next six years will be 31% for each three-year period, we have the following table:—

ESTIMATED ENROLLMENT AT THE END OF TWO PERIODS OF THREE YEARS EACH.

	Central.	Commerce.	Technical.	All.
1922	941	1225	901	3067
1925	1250	1581	1187	4018
Capacity	800	1500	750	3050

For the school year beginning September 3, 1919, we are employing 783 teachers, an increase of 33 over the previous year. See Table IV.

TABLE IV.

NUMBER OF TEACHERS' POSITIONS.
First Semester, 1919-1920.

	Men.	Women.	Total.	Men.	Women.	Total.
Supervisors,	2	11	13	2	11	13
High Schools						
Supervising principals,	3	....	3			
Heads of departments,	18	6	24			
Teachers, full time, senior high,	33	78	111			
Teachers, part time, senior high,	..	1	1			
Teachers, full time, senior and junior high,	8	10	18			
Teachers, part time, senior and junior high,	..	....	..			
Teachers, full time, junior high in High School of Commerce,	..	3	3			
Teachers, part time, junior high in High School of Commerce,	..	....	..	62	98	160
Vocational School						
Director,	1	....	1			
Teachers,	9	....	9	10	....	10
Junior High Schools						
Supervising principals,	5	1	6			
Teachers in charge of room,	..	112	112			
Special teachers of junior high subjects on full time in one building,	20	37	57			
Special teachers of junior high subjects on part time in one building,	1	....	1			
Special teachers of junior high subjects on full time who do not spend all their time in one building,	1	6	7			
General substitutes,	..	3	3	27	159	186
Elementary Schools						
Supervising principals,	4	17	21			
Assistants to supervising principals and associate teachers,	..	18	18			
Principals who devote half or more than half their time to teaching,	..	4	4			
Elementary Teachers in charge of room,	..	293	293			
Teachers of ungraded rooms,	..	2	2			
Teachers of open-air rooms,	..	4	4			
Teachers of special rooms,	..	13	13			
Special teachers of elementary subjects on full time who do not spend all their time in one building,	..	4	4			
General substitutes,	..	4	4			
Kindergartens						
Kindergarten teachers,	..	19	19			
Kindergarten assistants,	..	28	28			
Special						
Director of Psychological laboratory,	1	....	1			
Visiting teacher,	..	1	1			
Director of High Schools lunch department,	..	1	1			
Assistant Director of High Schools lunch	..	1	1	5	409	414
				106	677	783

The following table shows the growth of the schools measured in costs over three five-year periods:—

	Current Expenses.	Repairs and Alterations.	New Buildings.
1918	$1,187,801.10	$47,843.27	$340,622.33
1913	696,066.08	37,072.32	235,401.52
1908	485,064.25	25,618.77	139,180.18

THE HOLDING POWER OF THE SPRINGFIELD HIGH SCHOOLS.

In this connection it is interesting to compare the holding power of Springfield's high schools with that of Brookline, Mass., the New England city which stands highest in this respect, and with the United States as a whole. The figures for Springfield are taken from the annual reports of the School Committee; the other figures are taken from the Educational Survey of the Public Schools of Brookline, pp. 328 and 329.

PERCENTAGES OF TEN ENTERING CLASSES IN HIGH SCHOOLS RETAINED TO GRADUATION.

Springfield, 1906–1915 (three schools),.....45
Brookline, ten classes,.....46
United States, ten classes,.....39

The classes that entered in the years 1906–1915 are of course the classes that were graduated in the years 1910–1919. The figures for Springfield include the years after the United States became a party to the World War; the figures for Brookline and the United States do not include these years. One other factor enters into Brookline's higher showing, namely, the restriction placed upon entrance into the high school of Brookline by the granting of two grades of certificates of graduation from the grammar schools, only one of which admits to the high school.

The Brookline high school enrollment during the years under comparison represented a selected group of relatively high scholarship at entrance, whereas in Springfield and elsewhere every pupil who is promoted from the grades may enter high school even though he has barely escaped failure. This one factor could easily account for Brookline's one per cent advantage.

The holding power of our three high schools is in the following order: Central High, High School of Commerce, Technical High. This is perhaps an order to be expected since it represents the inverse order of vocational demand. Of the three schools, the Technical has probably suffered most from such causes as the need of boys to support themselves or to assist in the support of their families.

PHYSICAL DATA.

Improvements carried out or in progress during the year are as follows:—

Forest Park Junior High School: Addition of 20 rooms besides auditorium and double gymnasium with dressing rooms and showers—under construction.

Chestnut Street Junior High School: An addition under construction consisting of auditorium, double gymnasium, dressing rooms and showers, one class room fitted up for use both as secretary's office and class room for instruction in office practice.

High School of Commerce: Students' club room fitted up and furnished by the students themselves.

Liberty School on upper Carew street completed: A one-story school of 8 class rooms and assembly room.

East Main Street School, Indian Orchard: A single portable schoolroom.

Homer Street Elementary School: An addition of 10 class rooms under construction with large kindergarten so arranged that it will serve as assembly room by opening accordion door partitions; new toilet facilities; additional playground.

Five Mile Pond School: A second class room added on second floor. Fire escape installed.

Hooker School: A new building of 24 rooms completed. Besides regular class rooms, the building has a well-equipped gymnasium, an assembly hall, open-air rooms with rest room, kitchen, and dining room, manual training rooms, and kindergarten rooms.

NEW BUILDING RECOMMENDATIONS.

The most important requirements after the additions to the Homer Street Elementary School and the Forest Park and Chestnut Street junior high schools now under construction shall have been completed are the following:—

1. A new building to house the Vocational School and the part of the continuation school requiring shop equipment.

2. A new building to replace the antiquated and unsatisfactory building now used by the State Street Junior High School.

The following report of the Committee on New Buildings, relating principally to these two projects, was adopted at the meeting of the School Committee held on October 31:—

"With the understanding that the present Vocational School will be available for one year beyond the present scholastic year; with the understanding also that no land be used in conflict with the plans already adopted for the addition to the Technical High School; it is recommended that the new Vocational School be built at once on land to the south of the property owned by the city on Spring street and extending in depth to the line of the property on Elliot street west of the Spring street lots. It is recommended that this property be purchased immediately.

"It is recommended that the State Street Junior High School be housed temporarily in the new vocational building. It is recommended that the new State Street Junior High building be located upon the present site of the State Street School. Many advantages will result from these plans. In each case one heating plant will serve two buildings, and many economies of administration will be possible.

"The committee wishes to call attention, however, to this fact: both Central and Technical high schools will be filled to capacity by next February. The overflow can be accommodated to some extent in the proposed new building. This will delay, but not obviate, the necessity for additions to each of these high school buildings.

"It is recommended that the Day property immediately east of the present Central High School building, running through from State street to Temple street, be purchased, and that the addition to the Central High School when needed be built upon this ground."

THE CONTINUATION SCHOOL.

A law of state-wide application passed at the last session of the legislature makes it necessary for Springfield to provide in September, 1920, for the education of all boys and girls between the ages of fourteen and sixteen years who have taken out working certificates and have left the regular schools. All such pupils will attend school for four hours each week when in employment, and twenty hours per week when not at work. There are now more than 1,100 children of these ages holding working certificates.

Those whose further education can best be forwarded by correlating their studies with the commercial activities in which they are engaged may be accommodated in the High School of Commerce building; others should be provided for in the new Vocational School.

THE SPECIAL FUNCTION OF THE STATE STREET JUNIOR HIGH SCHOOL.

The State Street Junior High School needs to be located in close proximity to the Central High School.

In two previous school board reports it was recommended that this

building be located on School street. This location is no longer recommended for the following reasons: The State Street Junior High School now serves as a receiving station for pupils who have not fully met the requirements for promotion to a senior high school, but who are entitled to take some senior high school studies while completing the junior high school course. There are from 50 to 100 such irregular pupils to be provided for each semester. They must go from their building to the Central High School for certain recitations just as Central High School pupils go from study room to recitation room within the high school building. The School street site is too far away to make this interchange practicable.

The lessened pressure upon the senior high schools, due to the adoption of the 6-3-3 plan, makes it possible and desirable to build this junior high school before making additions to the Technical and Central high schools. The Technical High School can secure temporary relief, if needed, by utilizing surplus space in the new Vocational School. In like manner the Central High School can utilize free space in the new junior high school until its addition can be provided. These interchanges will not, however, be possible unless the new schools are located in close proximity to the old and are made large enough to anticipate future growth.

EXTENT OF RELIEF AFFORDED BY THE 6-3-3 PLAN.

Had the 6-3-3 plan not been adopted in 1916, thus removing the freshman class from the high schools, both the Central High School and the Technical High School would have had to be enlarged at that time. Contrary to the common impression, the freshman class of a four-year high school is always more than one third of the whole school. It is usually nearer one half than one third.

In our own school system the freshman figures for a period of six years were as follows:—

Freshman			Junior III		
1914	1915	1916	1917	1918	1919
932	930	936	1051	1111	1093

It is evident that the three senior high schools would now have to take care of 1,093 more pupils than they now enroll if the old organization were still in force. This is 45% of the whole number now in the senior high schools.

ADDITIONAL ACCOMMODATIONS NEEDED.

Additional school accommodations are needed in the Rushville, Dry Bridge, Boston Road, and Indian Orchard districts. The portable buildings now at Homer street can be used to advantage to relieve congestion in these localities, but it is not too early to consider the erection of permanent additions to existing schools.

East Springfield, too, is developing so rapidly that at least a two-room portable unit should be established there in the near future. The city owns a suitable site.

The Myrtle Street School is filled to its capacity, and a new building on or near the site of the East Main Street School would serve to relieve the Myrtle Street School and fulfill the needs of the eastern district. A portable school will be needed there next February.

The Washington School was put into commission in September, 1918, with 12 rooms and a kindergarten in operation. A large school hall on the second floor of the building proved to be a useful and delightful adjunct to school and community life. Owing to extensive building activity in the neighborhood, the school has grown so rapidly that it became necessary to divide the hall into three class rooms, two of which were filled with pupils when school opened in September, 1919. There is now but one unoccupied room in the building and, at the present rate of increase, the school will be overcrowded in another year. The addition to the Forest Park School now under construction will furnish relief for a limited period, but some provision for an addition to the Washington School should be made in the near future, or else an additional elementary school building should be erected further east in the Forest Park section.

THE ONE-STORY SCHOOL.

The new Liberty School, five rooms of which were opened in September, 1918, now has six rooms in operation, with but two more available as class rooms. This school is of the one-story type, with a large assembly hall that is used not only for assemblies, but for physical exercises, folk-dancing, and various social activities connected with school and community life. Experience is demonstrating that this type of building is well adapted to a school of not more than 12 to 16 rooms situated in outlying districts where land is reasonable in price.

THE TIMES AND THE SCHOOLS.

The post-war spirit that is seeking the establishment of a more complete and effective democracy than has existed heretofore, is making itself felt throughout the entire educational system. It is exerting an influence upon all the instruction of the schools and there is evidence that it has awakened in the teaching force a new spirit of devotion to the interests of the oncoming generation. It has dignified all teaching by throwing into relief the importance of the teacher's task. It has opened the eyes of educators to the dangers of biased and dogmatic instruction and has emphasized the need of teachers who are broad enough and skillful enough to inspire children with such a love of justice and such a sympathetic understanding of their fellows that they may be trusted to uphold the principles for whose establishment our nation has been contending.

In our own city teachers are seeking to break away from the shackles of formalism and to provide their pupils with a wider opportunity for independent initiative. Children are being encouraged to develop along the lines of their interests and to co-ordinate, whenever possible, their home and school activities. By means of social games, dramatization, the socialized recitation, and various school activities depending for their success upon the co-operation of the workers, the schools are seeking to train children for life in a democracy.

STATE AND NATIONAL CO-OPERATION IN EDUCATION.

A more effective co-ordination of national, state, and local educational interests and facilities is one of the most beneficent results of the upheaval caused by the war. Literacy is now a question of more than local interest; it has become the concern of the nation. We have entered upon a new era of co-operation in all matters pertaining to public education, public morals, and public health. Searching questions are being asked by the national government regarding the physical fitness of public school children, and teachers are co-operating with school physicians and nurses in an effort to seek out the children suffering from malnutrition in order that this handicap may, through some means, be removed before permanent harm has been done.

THE PROBLEM OF MALNUTRITION.

In a large local school where a careful physical examination of children has been made this fall, it appears that, according to the government

standard, 40 per cent of the pupils are under-nourished. A study has been made of the effect of malnutrition upon the school work of these pupils with the result that, in this particular school at least, the percentage of failure among under-nourished pupils decreases in proportion to age, the younger children showing a much larger percentage of failure than the older ones.

It is evident that some means should be found for removing this handicap, especially in the case of elementary school pupils. The Board of Health is urging the establishment of nutrition centers where parents may meet with school physicians and nurses for conference and instruction.

A short unit course for mothers in the art of planning and cooking economical and well-balanced meals for growing children might well be made a feature of these clinics. This would help the situation, but it would not fully meet it. In addition, some means must be found for providing the children of indigent, overburdened, or hopelessly indifferent parents with the needed supplementary nourishment.

THE PENNY LUNCH.

Various attempts are being made throughout the country to solve this problem of malnutrition. The pupils of an entire school in Brookline, Mass., are being served, in the middle of a long single session, with a glass of milk, at cost, each child paying for his own milk. The result is a marked decrease in the evidences of fatigue. The experiment of providing a simple, noon luncheon for elementary school children whose mothers are absent from home all day as wage-earners was tried out here last winter by the Springfield Women's Club with such favorable results that the School Board, in co-operation with the City Government, decided to become responsible for the continuance of the project during the current school year.

A combined kitchen and dining room was fitted up in a well-lighted basement room in the William Street School and hot soup, hot cocoa, sandwiches, and bread and butter are sold each noon to pupils who would otherwise have a cold luncheon composed largely of cakes and doughnuts purchased in nearby bakery shops. The children pay for food and service a sum seldom in excess of five or six cents per day, the cost of equipment and replacement being met by the city. Such penny lunches for children of wage-earning mothers may well be given a more general trial as a means of preventing the increase of malnutrition during these days of post-war adjustment.

OPEN-AIR SCHOOLS.

The open-air schools located in the Hooker and the Howard street buildings are illustrating the beneficial effects of proper food and fresh air upon the health of weak and anæmic children. The pupils of these schools are fed, at the city's expense, upon plain, wholesome food that includes a generous allowance of milk. They do not return to their homes at the noon intermission, but remain at school where dinner is followed by a nap in the fresh air and a brief period devoted to brisk outdoor exercise. One hundred anæmic children are being accommodated at present in the two open-air centers and there is always a long waiting list.

These schools are preventive as well as curative in their effects and provide the best possible protection against the menace of tuberculosis. They should be duplicated in other sections of the city, as the question of transportation is a serious one in the case of feeble children. The maintenance of such schools is a measure of public safety and is in harmony with the national program for the conservation of the health of the school children.

MEDICAL INSPECTION.

The medical inspection of schools is under the control of the Board of Health. The co-operation between this board and the school department is such that each supplements the work of the other.

Physicians are devoting a part of their time to the inspection of schools, and five nurses are employed on a full-time basis to aid in the necessary follow-up work. Much of the work of the examining physicians would prove ineffective were it not for the assistance rendered by the school nurses, most of whose time is spent in following up cases of contagious diseases in the interests of public safety, and in persuading parents to take the necessary steps for the correction of the bodily defects revealed by the physical examinations.

There is much more work of this sort than can be covered by the present force of school nurses, and Dr. Guild's request that at least two more nurses be appointed should meet with hearty endorsement. The elimination of removable defects is such an important result of the medical supervision and inspection of schools that it would be difficult to overestimate the importance of the work of the school nurses.

It should be noted that much is being done through the co-operation of the Junior Red Cross, the Springfield, Wesson, and Mercy hospitals, many local physicians, The Children's Aid Society, The Union Relief

Association, The Teachers' Club, the Springfield Women's Club, and the trustees of the Smith Fund, to supplement the work of the school physicians and nurses by the extension of aid to children whose parents cannot afford the expense of fitting them to glasses or of correcting other physical defects.

THE DENTAL CLINICS.

In May, 1918, a dental clinic for elementary school pupils was established by the Board of Health in the Howard Street School. The clinic very shortly demonstrated the need of others, and a second clinic has been established this fall in the Hooker Elementary School. A dentist, assisted by a nurse, is in attendance at each of these schools. There is a great need for a further extension of these clinics.

HYGIENE, SCHOOL GARDENS, AND NATURE STUDY.

These subjects are under the general direction of the supervisor of Nature Study and are being closely correlated with various other school activities. For example, the department of Manual Arts is constructing aquariums and collectors' nets for the use of nature study classes in the junior high school, and the manual training classes have turned out quantities of markers and plant sticks for school and home gardens.

There has been a definite effort to lead pupils to observe the fundamental laws of hygiene in their daily living, and a set of health rules has been printed for use in connection with a school health crusade. This crusade is to be carried on intensively for a period of two or three weeks each year, and during this time pupils are to give daily reports of their practice in such matters as brushing the teeth, washing the hands before meals, sleeping in rooms with windows open, etc.

The outline for work in nature study has recently been revised and the new sixth grade plan makes this a "gardening" year. A full-time assistant has been appointed to forward the interests of the school and home garden project and the scope of this work has been definitely enlarged during the past season.

KINDERGARTENS.

There is a full attendance in all the kindergartens of the city and the centrally located kindergartens are filled to their capacity. In some of these centers it has been necessary to place upon waiting lists all pupils who have applied for admission since October first.

The kindergarten that was opened in September, 1918, in the new

Washington School with a membership of 50 has now a capacity attendance. The kindergarten established last year in the Carew Street School has a membership of 63 and this has not affected the attendance at the Hooker kindergarten where there are 116 children in attendance. The two Indian Orchard kindergartens have reached such proportions that it is no longer feasible to continue the present plan of operation, under which the teachers who conduct the kindergarten at the East Main Street School in the forenoon take charge of the Myrtle Street kindergarten in the afternoon. This arrangement deprives both schools of the afternoon play session, and parents are asking that a separate corps of teachers be provided for each school in order that all the children may have full kindergarten privileges. There is already a complete kindergarten equipment at Myrtle Street and East Main Street, and the number of pupils enrolled entitles the schools to a full staff of teachers for each kindergarten. The new arrangement should go into effect at Indian Orchard not later than September, 1920.

ELEMENTARY SCHOOL PROGRESS.

The elementary schools have been especially handicapped during the past year by the enforced vacation due to the influenza epidemic. When the schools reopened at the close of the seven weeks' interim, the attendance in many of the lower grades for weeks after the opening was less than a third of the normal attendance, and many children who entered the kindergarten and first grade in September, 1918, did not re-enter the schools until the beginning of the second semester in February, 1919. This involved a loss of practically a half-year's work that it has not been possible to make good. Most of the pupils who lost only seven to ten weeks have been able to sustain themselves in their grades. Teachers and principals deserve special commendation for so adjusting the work of the schools that it has been possible for so many pupils to cover so large a proportion of the loss occasioned by the enforced absence from school. Teachers have given generously of their out-of-school time in coaching backward pupils and have worked under pressure during school hours in order to accomplish a little more than the usual amount of work each day. The spirit in which the teachers and children met the situation is worthy of more than passing notice.

During the past two years the work in arithmetic has been strengthened by the efforts of elementary school teachers to attach a game interest to the necessary arithmetical drills and to bring book and school arithmetic into close touch with home and community life.

In reading, teachers are giving special attention to enunciation and to training children to read so that their hearers may understand and enjoy the text. Young pupils are being given enlarged opportunities for silent reading, and the City Library is providing the schools with small "libraries" suited to the age and abilities of pupils. The co-operation of the City Library with the schools of the city is greatly appreciated by the entire teaching force.

NOTES ON THE SENIOR HIGH SCHOOLS AND THE JUNIOR COLLEGE.

Central High School.

A course given by Doctor Law in "Problems of Democracy" is worthy of special mention. This is in line with the nation-wide interest in social education. The work continues the instruction given in community civics classes and covers such topics as

Conservation and Use of Natural Resources.
Wages and Labor.
Standard of Living.
Education of Workers, Normal and Abnormal.
Unionism.
Capital—Meaning and Legitimate Uses.
Poverty.
Duties of Citizenship—Civics in Elementary Form.

German. We are able this year to report a beginning class in German of ten pupils in the Central High School and two full classes in the Chestnut Street Junior High School. There is already something of a reaction noticeable. The prejudice against the study is not so strong as it was a year ago. The attitude of the scientific schools is favorable to a continuation of the German requirement so that while this generation will probably not see German regain anything like the place it held in our curriculum, it is safe to predict that we shall have a growing number of students in the department. The upper class work in German continues strong. There are six classes at work of those who began the subject before the entry of the United States into the war.

The Junior College shows an increased demand on the part of Springfield students for an education beyond the high school. Students in last year's class have continued their studies in such institutions as Smith, Mount Holyoke, Boston University, Brown University, and Syracuse University. The demand for a secretarial course is sufficient to suggest the desirability of continuing the work for another year, giving two years

of training instead of one. It is probable that in another year we shall offer the first year of work in engineering courses for which credit may be obtained toward a regular course in such institutions.

The offer of two scholarships of $100 each by Mr. and Mrs. Eugene A. Dexter of Sumner Avenue, to help defray college expenses for the next year, to girls in the Central High School and the Springfield Junior College, suggests a theme that might well be given attention. The high schools are in a better position to select worthy candidates for scholarships than are the colleges themselves if such aid is to be given to the college freshmen. If several Springfield citizens were to encourage the work of the schools here as a field in which the expenditure of a little money is likely to bring unusual results, it would be well worth while.

TECHNICAL HIGH SCHOOL.

We were fortunate to secure an able successor in Dr. Allan L. Carter for the headship of the modern language department which was relinquished by Captain Herbert F. Hartwell. Major Burton A. Adams was made director of the shops upon his release from government service. In addition to this assignment he succeeds Mr. E. E. MacNary as supervisor of manual training and practical arts for boys in the junior high schools.

Last year reference was made in my report to the fact that while in the Technical High School there had been a 30 per cent gain in enrollment of boys, there had been a 15 per cent loss in enrollment of girls. This was thought to be closely connected with the opening up of courses in cooking and sewing in the other high schools. It seems probable that through misunderstanding on the part of the public, the distinctive value of the courses for girls at the Technical High School has not been sufficiently appreciated. In Central and Commerce the courses cover only the field that should be familiar to every girl as a future home-maker. In the Technical High School they do this also, but they do far more. They equip for vocations in which women may earn a livelihood. This difference in aim of the practical courses for girls in our high schools should be better understood by the public than it now seems to be.

In this connection I feel justified in commending the work of the vocational bureau of this school. During the past year this bureau has investigated 152 cases which may be divided into three classes, viz.; (1) graduate positions filled, (2) undergraduate positions filled, (3) positions not accepted. As the result of this investigation, 14 graduate positions of

fairly permanent character were filled, and 56 undergraduates were placed in positions affording part-time work out of school hours. The remaining 82 positions which were investigated were either undesirable or filled by action elsewhere. The vocational bureau, however, by no means confines its work to the placing of students in positions. It gives a large amount of vocational advice in connection with choice of courses and serves to focalize the interest of students upon the work they are doing with reference to practical life or further engineering education. Mr. Raymond E. Parker, teacher of applied mathematics and a young man of successful experience as a manager of construction work, has been definitely assigned to the vocational bureau and is placing it upon a secure and successful footing.

HIGH SCHOOL OF COMMERCE.

This school is having a rapid growth as the statistics already quoted will show. There is still room fortunately for overflow classes from the junior high schools. The building furnishes a fine example of a public building which is used day and evening practically throughout the year. It houses a day school, an evening school, and a summer school. It is closed only about four weeks in the entire year.

The model facilities which the building offers for physical training have been mentioned in another part of this report. The lunch room is also a model which may well be followed in planning additions to the other high schools.

The new course in foreign trade offered this year in the High School of Commerce is proving both valuable and popular. It has enrolled nearly 50 students. The Spanish language and commercial geography constitute elements in the course.

The enterprise and loyalty of the student body have been shown recently by their action in fitting up as a meeting place for the clubs of the school a well lighted basement room. They made a part of the furniture and purchased the rest at their own expense at a cost of approximately $1,000.

PHYSICAL EDUCATION IN THE SENIOR HIGH SCHOOLS.

High Schools (Boys).

Upon the resignation of Mr. August E. Metzdorf, Physical Director, in 1918, the responsibility for boys' work devolved upon the physical training instructor in each high school, acting under the general direction

of the principal. The practice of the three schools in the field of athletics is determined in conference, subject of course to the general policy of the school committee, which is that the time of the physical director shall be given to improving the physical condition of the school rather than to the perfecting of a few athletes in the fine points of the game. This does not mean that football and baseball are not approved. They have their place and should be given needed encouragement by securing a suitable athletic field easily accessible to the three schools so that all boys may get the benefit, not merely the few whose enthusiasm needs no spur.

The gymnasium work, which, after all, is more important from the standpoint of the good of the entire student body than the strictly athletic features, is greatly hampered by lack of proper facilities except at the High School of Commerce. The need of suitable gymnasiums at the Central and Technical high schools has been sufficiently emphasized in previous reports. Mention of the need at this time without elaboration is perhaps sufficient.

High Schools (Girls).

The girls' work in the high schools and the work of both boys and girls in the junior high and elementary schools is under the direction of Mrs. Grace W. Baxter. Excellent progress has been made.

In addition to the usual classes of gymnastics and dancing for girls, special emphasis has been laid this year on outdoor work. Instruction in baseball, tennis, and athletics has been offered in the spring term, followed, at the High School of Commerce, by the first outdoor field day for girls which has been held in Springfield. This experiment has been most successful and will be adopted by the other two high schools this year. In addition, bicycling and walking clubs have been formed which are of exceptional value as a means of laying the foundation of a habit of beneficial recreation through life and not merely through the school years. Walking clubs for girls conducted by grade teachers in turn will be started in the junior high schools this spring.

Swimming has been added as a voluntary sport, and the girls rent the pool at the Y. M. C. A. College at a cost of ten cents per girl, per lesson. The instructors give their services as teachers.

Junior High Schools (Boys and Girls)

The work has been immensely benefited by the appointment of special teachers for both boys and girls and is now on a firm foundation. We

shall hold competitive gymnastic meets between classes this spring in each school which is equipped with a gymnasium.

Coaches for after-school games are now on a paid basis, which has resulted in an increased sense of responsibility and a stricter accountability to the supervisor.

NEEDS.

Our most urgent need is for gymnasium equipment for the Chestnut and State Street Schools, which are at present entirely without these advantages which the other junior high schools enjoy. The gymnasium at the Central High School is entirely inadequate for the efficient handling of such large numbers of girls as must necessarily make use of what it offers.

It is recommended that medical examination of the entering classes of the high school be conducted each fall as a means of assisting the directors to prescribe the special kind of work fitted for each individual.

PHYSICAL EDUCATION IN ELEMENTARY SCHOOLS.

The work of the physical education department has made steady advance during the past year. Through the courtesy of the teachers of the department, in co-operation with the Teachers' Club, a class in physical education, open to all teachers, was organized this fall and has now a membership of eighty. The enthusiasm promoted by this supplementary training is making itself felt in the schools and the physical training program is being vigorously carried out.

The introduction of "stunts" as a feature of the program offered to children of grades one to four has quickened the interest of the children in their own physical development and has tied up home and playground practice with school practice.

In the first and second grades there is a "break" of a minute or two after every twenty or thirty minute period, in which pupils run about the room, jump over imaginary obstructions, or play vigorously with balls or bean bags. In pleasant weather they often "race" each other around the schoolhouse or up and down the walks. In all the elementary schools two additional three-minute drills have been introduced into each day's program as a relief from continued sitting. The fifth and sixth grades have been supplied with simple apparatus for track athletics which they practice at recess and they are to have a track meet of their own in the spring. Much attention has been given this year to the correction of posture.

THE ATTENDANCE DEPARTMENT.

This department is exceptionally well manned and is therefore doing the high grade of work which might naturally be expected of it. The state law which places upon this department responsibility for making and keeping the school census up-to-date imposes a burden which calls for additional help in the office. The officers are obliged to perform clerical work at times when they are needed in the field.

A suggestion has come from a high school principal that it would be well to have the work of our attendance officers so distributed that one of them could give especial attention to the pupils in our vocational and senior high schools. Many of our older pupils, who are beyond the age of sixteen, begin to lose their interest in school and absent themselves on one pretext or another, who might be retained in school, if some person had the time to follow them up promptly after each absence. If this were done, we could keep in school a good many boys and girls who are now allowed to drift away from school because no one has the time to hunt them up. This seems to me a good suggestion, but one impossible to carry out unless another officer can be appointed.

THE SUMMER SCHOOLS.

The following table shows the attendance in the summer schools. They were in session for six weeks beginning July 8 at the following centers:—

High School of Commerce, senior high, junior high, and elementary.
Chestnut Street School, junior high and elementary.
Kensington Avenue School, elementary.

TABLE V.

Enrollment, Summer Schools,	1919	1918
Senior High,	252	259
Junior High, Grades V and VI,	637 658	1383
	1547	1642
Per cent of Attendance, 1919.	**Day**	**Summer**
Senior High,	92.4	94.0
Elementary and Junior High,	90.4	89.6

In the summer school a class meets five times a week for six weeks, a total of 30 recitations each of which is one and one half hours long, making a total of 45 hours. In the summer school these periods are never shortened, but in the regular school they are shortened every time there is an assembly, so that one semester's work with one class never nets 68 hours.

The difference in time devoted to a single subject in regular session and summer session is not as great as many have supposed.

The success of the summer school is based upon these elements:—

1. Voluntary attendance.
2. Choice of subjects studied.
3. Concentration upon one or two subjects.
4. Full school time devoted to subject spent with teacher of that subject.
5. Opportunity for conference with teacher at other times.
6. Small classes.
7. Weekly report to parents.
8. Teachers thoroughly acquainted with the work.

DRAWING.

Recently there has been a growing tendency toward considering art and hand work in the elementary grades as one subject. In accordance with this tendency it has seemed advisable to place the supervision of these subjects under one head.

Since the elementary grades are an experience-giving institution, the work of the boys should not differ essentially from that of the girls. Likewise, the art work should not be separated and distinct from the constructive work. They should be handled as one subject by the class-room teacher with occasional visits and lessons by a specialist. The art and hand work should be interwoven closely with geography, history, language, number, and nature study. Drawing, modeling, toy building, and sand table work are almost indispensable.

A new course of study for the grades is planned with a consideration for the needs of all, assuming that all can draw, construct, and appreciate as it is assumed that all can read, write, and figure. Such a course must have clearly defined purposes. The purposes and aims in the elementary grades are to give the children an abundance of experiences with objects, materials, and fundamental activities. Such experiences are generally conceded to be essential factors in developing the imagination and inventive faculties of children. Through his rude efforts to represent objects or ideas, to create or to build, the child unconsciously acquires a keener observation and learns in a measure to appreciate the work of more skilled hands than his own. There is no fixed and unvarying method of training a child to draw, paint, and construct.

MUSIC.

The musical activities in our schools were somewhat curtailed as a result of the enforced vacation, but much has been accomplished, nevertheless.

Demonstration classes in music in the lower grades, rather than mere talks to teachers on the subject, have been a feature of this branch of our school work this year, with such success as to indicate that the plan might well be expanded to include the upper grade classes.

This plan of our work was displayed at the recent county convention of teachers by one class of second grade pupils and one from the sixth grade. The work of both groups was highly commended for tone quality, while the concentration and accuracy of the sixth grade class in sight singing reflected great credit on their teacher and the plan of work.

Community or mass singing in the assemblies of the high schools, which was taken up during the war, has been continued with increased success.

More and more attention is being given by educators to the usefulness of phonographs in raising the standards of musical values, through listening lessons. A very interesting, even significant reaction from a series of such lessons is reported from one of our junior high schools. One hundred and fifty-one pupils, of whom ninety-seven were girls and fifty-four were boys, made up the classes having this work. Out of this total, all but four expressed themselves in favor of the exercise. Seventy-five pupils have machines at home and twenty-three of these have purchased for home use records of selections heard at school.

As a means of helping our young people to acquire the ability to choose wisely the kind of music worthy of their attention and effort, the value of such lessons is readily apparent.

THE PSYCHOLOGICAL LABORATORY.

A new state law requires the examination of every child enrolled in the schools who is three or more years behind grade, for the purpose of determining his mental condition. The resources of our laboratory as at present organized are not adequate for this task. We need either more of Dr. Dawson's time, or an assistant, so that the laboratory may be kept in operation more than two days per week. Since Dr. Dawson's engagements at the Y. M. C. A. College will not permit him to give us another day, the only solution would seem to be to employ a trained woman as full-time assistant.

The laboratory has not been able in two days per week which Dr. Dawson could devote to our work to keep up with the low grade cases referred to him by the schools. We need his advice also in cases of superior intellectual ability, and we need to have him see our special classes of various types to which he is recommending transfers. A full-time assistant could serve in his place for a day now and then while he is visiting special

classes, besides serving alone under his general direction on the three days per week when the laboratory would otherwise be closed.

THE EVENING SCHOOLS.

The evening schools have been well attended considering the fact that there have been no recent immigrants enrolled. The Evening Trades School enrolled fully 20 per cent more students than ever before in its history.

The Junior High Schools deserve special consideration, but space forbids a detailed report of their progress at this time. They form so important a part of the entire school organization and the problems which they have presented are so varied and so far-reaching, that I propose to give them the chief place in my next report.

Respectfully submitted,

JAMES H. VAN SICKLE,
Superintendent of Schools.

December 29, 1919.

REPORT

OF THE

DEPARTMENT OF EVENING SCHOOL EXTENSION

RALPH P. BOAS, Director.

The department of Evening School Extension was organized in January, 1919, to undertake Americanization and community center work in the city of Springfield. At that date, no Americanization work, with the exception of one class in citizenship at the Y. M. C. A., was being done in Springfield.

There is no question but that the various organizations for social betterment such as the Boys' Club, the Girls' Patriotic League, the Y. W. C. A., the various social organizations for promoting Americanization, etc., were doing useful work for the upbuilding of citizenship. Work aimed specifically at the education of immigrants, not yet naturalized, not yet able to speak English, and otherwise unassimilated, had never been undertaken on any scale commensurate with its importance.

It immediately became clear that the department must handle two related kinds of work: education for Americanization in the narrow sense, and the stimulation of community activity in the neighborhood of certain designated centers.

After a few weeks' intensive advertising through the newspapers and by means of speeches before various organizations, the North End Community Center opened on February 28, 1919, in the New Hooker School.

There was an immediate response to the opportunities offered the neighborhood. The following classes were instituted:—

Two evening classes in English for women, meeting twice a week, one of which was conducted by Mrs. Henry M. Bowden as a volunteer worker. The total registration: 35.

One afternoon class for women, meeting once a week, conducted by Miss Christine Lewis as a volunteer worker. Total registration: 6.

Two evening classes in English and citizenship for men, meeting twice a week. Total registration: 40.

One dancing class, meeting twice a week. Total registration: 200.

One gymnasium class for women, meeting twice a week. Total registration: 60.

One gymnasium class for men, meeting twice a week. Total registration: 100.

Sewing class for women, meeting twice a week. Total registration: 30.

A community forum was held every Sunday night with an average attendance of three hundred. Various speakers addressed the meetings on questions of general interest.

On three occasions racial meetings were held for Jews, Greeks, and Poles, respectively. These groups elected racial committees to help in Americanization work.

In addition to the work at the North End Center, three classes were established for Italians at the South End:—

At the Mazzini Club, corner Main and Park Streets:—

One class in advanced English, meeting twice a week. Total registration: 20.

One class in elementary English, meeting twice a week. Total registration: 15.

At the Columbus Institute:—

One class in elementary English. Total registration: 12.

The activities of the department of School Extension came to an end in the early spring. It became clear that as the weather grew warmer, Americanization classes, voluntarily attended as they were, could not continue to hold the interest of the people.

The activities of the department were resumed in the fall of 1919 with the opening of the North End Community Center on October 28. This year the activities have been greatly enlarged in number and in variety.

By a fortunate arrangement with the Park Board, a harmonious plan of co-operation has been devised whereby the Park Board conducts the dancing classes in the Community Center under the rules of the Center. This arrangement is working satisfactorily and will undoubtedly have excellent results. Already the young people in attendance are showing a great interest in the life of the Center. They plan various community enterprises and entertainments, and, without question, will stimulate the interest in the Center to a high degree. The dancing class meets in the main hall of the Center Monday and Thursday nights. The average attendance is 200. The total registration is 450.

The Community Forum has been greatly strengthened. It is no longer

a merely casual audience visiting the school to hear a speaker. It is now a well developed organization of earnest and intelligent men and women who meet every Sunday afternoon to discuss current topics. The members take an active part in the discussion and choose the subjects which they wish to discuss. The first meeting was held November 2 with 18 people present. On November 16, the attendance was 40; on November 23, over 70. In slow, consistent growth and in the intelligence and civic enthusiasm of its members lie the hope of success for this organization which, at the present time, is the only public organization under public auspices for public discussion of topics of current interest.

An interesting feature of the work this year is the mid-week meetings. The first two meetings were entertainments given by the Women's Club and the Teachers' Club respectively. At the third, Mr. Lewis Twitchell of the State Board of Immigration arranged a program of speeches and motion pictures before 500 Polish residents. At the fourth meeting, 350 people saw the first motion picture film of a series of programs aimed at visual instruction in citizenship and patriotism. This series of meetings, aimed at instruction, not at entertainment, should prove very valuable. These meetings are held Wednesday evenings.

On Tuesday nights a community chorus under the direction of the City Supervisor of Music is now being arranged. Though community singing is now a well developed part of the Wednesday and Sunday meetings, it was felt that community chorus work was so important as to demand a separate place as an activity. The first meeting of the chorus was held Tuesday, November 25.

This year it was felt that in order to make the Community Center a real neighborhood meeting place, opportunity should be given to local organizations engaged in community welfare work to meet in the building as part of the community activities. The Jewish Consumptives' Relief Association meets every month at the Center, and the Young Women's Hebrew Association meets weekly. It is hoped that other similar groups will co-operate with the Center in community work.

A gratifying feature of the work this fall is the interest shown in the work by young men and women, usually of foreign parentage, who have grown up in this country and have graduated from the public schools. An instance of their interest is the projected class in English literature soon to be organized by a group of young women of the North End. This class will be in charge of the director. It opens the way to a program of work that suggests very valuable opportunities in adult education.

The classes at the Community Center are as follows:—

4 classes in English for women, meeting twice weekly. Total registration: 55.

1 class in English for men, meeting twice weekly. Total registration: 22.

1 class in English for men, meeting once weekly. Total registration: 5.

1 class in Civics for naturalization, meeting once weekly. Total registration: 40.

2 classes in Sewing, meeting once a week each. Total registration: 30.

1 class in Cooking, meeting once a week each. Total registration: 11.

2 special classes for Poles, meeting twice a week each. Total registration: 40.

1 class in English literature for young women, meeting once a week. Total registration: 22.

1 Gymnasium class for women, meeting once a week. Total registration: 18.

1 Gymnasium class for men, meeting once a week. Total registration: 94.

It must be said that the men's gymnasium class is not a success. There exists comparatively little interest in indoor gymnastics aside from basketball games at the Boys' Club. The director and the manager of the Center are giving the problem their close attention and it is expected that when winter really sets in, this class will show improvement.

Plans are now on foot for the formation of a basketball team to enter the keen competition among young athletes in the North End. Such a team would care for about 20 young men.

The classes outside the Community Center are as follows:—

Mazzini Club:—

Two classes in English for men, meeting twice weekly each. Total registration: 20.

These classes were very successful last year but the young men who attended them are this year working overtime in the shops. Great activity in the industries means lessened attendance at evening classes. The young men of the club plan, however, an intensive campaign in the South End for increased membership.

At the Columbus Institute, one class in English for women. Total registration: 10.

This class began with two women and was increased by the effort of the teacher to 10, within three meetings. It was originally formed with the co-operation of the International Institute of the Y. W. C. A., whose co-operation has been very valuable.

At the Indian Orchard night school, one class in Civics for naturalization. Total registration: 35.

The classes in Civics are in charge of Mr. Lewis Twitchell, who is agent for the State Board of Immigration. His influence with candidates for naturalization has been very effective in furthering the formation of naturalization classes.

In addition to these classes, a class in English for Polish women is in process of formation at Indian Orchard. The International Institute is recruiting this class also. Registrants now number 10.

Another class of Greek women may be found at the Liberty School on nights when the "social center" is meeting. This class is being organized by Mrs. Bowden.

Mention must be made of the excellent results already obtained by the securing of Mrs. Henry M. Bowden as field secretary and organizing teacher. Mrs. Bowden visits foreign women in their homes and works up interest in Americanization at the point where Americanization work is usually weakest. She secures the good will of foreign women and explains the opportunities for education in Americanism where such explanation has to be made by word of mouth. In addition to recruiting, she is arranging a series of social afternoons with various groups of foreign women at the Hooker School. At these social gatherings opportunity is given for English conversation and for meeting American-born women. The results should be most effective. An especially effective part of Mrs. Bowden's work is teaching English in homes of foreign women to small groups. This work, if properly expanded, should be one of the most valuable of the school extension activities.

The conclusions to be drawn from the work of the year are:—

1. The ultimate necessity of a full time supervisor who can touch a problem as yet untouched, viz., the co-operation of the department of School Extension with the industries of Springfield. In addition, a supervisor on full time could really attempt to solve the many problems of community organization which now must go unsolved.

2. The establishment of at least one more community center, preferably in Indian Orchard. The limited funds now at the disposal of the department prevent an extension of activities where they are needed.

3. Co-operation with a civic committee on Americanization. Other cities have found a general city committee productive of excellent results. No such committee exists here, and consequently we cannot profit by the momentum which ought to be behind a civic campaign for Americanization.

In conclusion, I am happy to say that when one considers the limited funds of the department and the limited time for organization and supervision, Springfield has worked out a varied and effective plan of Americanization. There is all the more reason, therefore, for enlarging the program of work really to cover the necessities of the situation.

December, 1919.

ANNUAL REPORT

OF THE

ATTENDANCE OFFICER

To the School Board:—

I have the honor to present herewith the report of the work of the Attendance Officers for the school year 1918–1919:—

Number of visits to school buildings,	1,795
Number of cases reported from schools,	11,838
As follows: for absence, 10,182; truancy, 1,084; tardiness, 242; school offenders, 31; non-attendants, 3; evening school pupils, 296.	
Number of children found about the streets,	1,593
Upon investigation it was found that 1,210 were absentees; 283 were truants; 5 were school offenders; 95 were non-attendants.	
Of the children found about the streets, 115 absentees, 26 truants, 1 school offender, 20 non-attendants, 4 newsboys, were taken to their homes; and 67 absentees, 183 truants, 3 non-attendants, 1 newsboy, were taken to school.	
Number of visits made to homes,	14,193
Divided as follows: for absentees, 11,925; census, 109; truants, 1,431; tardiness, 160; school offenders, 34; non-attendants, 140; newsboys, 40; evening school pupils, 354.	
Number of individual absentees investigated,	7,112
Heads of families warned by letter that they would be prosecuted unless their children were sent to school regularly,	40
Prosecutions for failure to cause children to attend school,	14
Number of habitual absentees prosecuted,	9
Number of habitual absentees committed to the Hampden County Training School,	3
Number of habitual absentees committed to the Industrial School for Girls at Lancaster,	1
Number of pupils truant,	874
Number of truancies,	1,394
Number of days of truancy,	1,639
Number prosecuted as habitual truants,	41
Number committed to the Training School,	9
Number of cases placed on probation,	31
Number of cases committed to other institutions,	1
In addition to the boys committed to the Hampden County Training School, two boys who were on parole had their paroles revoked and were returned.	

Number of school offenders prosecuted, ... 6
Number of school offenders committed to the Hampden County Training School, ... 2
Number of children not attending any school, ... 175
Of these 38 were reported; and 137 were discovered by the Attendance Officers.
These cases were disposed of as follows:
139 entered school; 2 were sick and physicians' certificates were received; 17 left town; 14 were under age; 3 obtained employment certificates.
Number of boys licensed for street trades during the year, ... 144
Prosecutions against minors for selling newspapers illegally, ... 1
Number of evening school pupils prosecuted for not attending evening school regularly, ... 3
Number of individual children whose names appeared on the Attendance Officer's record for the year, ... 7,936
Number of certificates issued during the past year, ... 10,555
Employment certificates, ... 3,003
Educational certificates, ... 7,212
Educational certificates (illiterate), ... 340
Number of visits to stores and factories, ... 241
Number of visits to bowling alleys, ... 13
Number of visits to moving picture houses and theaters, ... 13
Number of visits to hotels, ... 2
Number of minors found illegally employed, ... 233
Persons and firms warned by letter for employing minors without certificates, and failing to return certificates, ... 14
Prosecutions against persons and firms for employing minors illegally, ... 11
(In eight cases a penalty of ten dollars was imposed.)
Prosecutions against persons and firms for permitting minors under sixteen years of age to be employed in a bowling alley, .. 2
(A penalty of ten dollars was imposed in each case.)
Prosecutions against persons and firms for failing to return employment certificates as required by law, ... 1
Prosecutions against managers of moving picture houses for admitting minors under fourteen years of age to the theater after six o'clock in the evening and during the hours when the public schools were in session, ... 2
(A penalty of five dollars was imposed in one case and ten dollars in another.)
Persons prosecuted for selling cigarettes to minors under eighteen years of age, ... 2
(A penalty of twenty-five dollars was imposed in each case.)
Prosecutions against persons for selling tobacco to minors, ... 1
(A penalty of five dollars was imposed.)
Number of cases referred to the Hampden County Children's Aid Association, ... 5
Number of cases referred to the Society for the Prevention of Cruelty to Children, ... 14

Number of cases referred to the Health Department,..... 1
Number of cases referred to the Union Relief Association,..... 18
Number of cases referred to the School Nurse,..... 19
Number of cases referred to the Department of Charities,..... 1
Number of cases referred to the Woman Probation Officer,..... 1
Number of cases referred to the Juvenile Probation Officer,..... 2
Number of cases referred to the Parole Agent of the State Reform School,..... 1

In submitting the statistics above showing the kinds and amount of work done by the Attendance Department, no mention is made of the Continuous Registration, or Census, yet this involves an immense amount of detail. There are now about 23,000 children between 5 and 16 years of age residing in Springfield. Each time one of these children is transferred or promoted from one school to another, or changes his address, the Attendance Department receives a notice from the school transferring or promoting him and checks his enrollment in the school to which he is assigned before the correction is made on the census card.

Another part of the work of the Attendance Department which has grown and requires considerable time is the following up of children shifting from one place of employment to another. Employment certificates are issued to children between fourteen and sixteen years of age authorizing employment only by the employer named thereon and at the kind of employment stated. When the employment of any child terminates his employment certicate must be returned to the Attendance Department by the employer and the child must secure new employment and a new employment certificate or return to school. Of the 3,003 employment certificates issued during the year, 319 authorized employment only outside of school hours. The remaining 2,684 employment certificates were issued to 1,402 children (838 boys and 564 girls) who left school. The following table shows the grades in school of which these children were members at the time they secured their first employment certificates:—

Grades	Below 4th	4th	5th	6th	7th	8th	9th	10th	11th	Above 11th	Totals
Boys,.....	5	30	68	132	196	201	167	30	9	0	838
Girls,.....	0	19	42	94	131	129	99	28	22	0	564
Totals,.....	5	49	110	226	327	330	266	58	31	0	1,402

It will be noticed that the largest numbers were members of the seventh and eighth grades. Also that 54 were members of the third and fourth grades although they were required to pass a completed fourth grade test in reading,

writing and spelling, the only subjects in which the Massachusetts law requires children to be tested before securing employment certificates.

That 2,684 certificates were issued to 1,402 children would indicate an average of nearly two places of employment for each child. These figures, however, do not show the true amount of shifting because they include children who became fourteen years of age and secured their first employment certificate and children who became sixteen years of age during the year. There were 109 boys and 61 girls who had employment certificates during the entire year. The 109 boys had a total of 295 certificates, an average of 2.7 each for the year, while the 61 girls had a total of 182 certificates or an average of practically three each for the year. The boy having the largest number had eight, and the girl having the largest number had ten.

The shifting of employment among the certificated workers was more frequent at the beginning of the period of employment than later. It was not surprising to find that the children changing most frequently were children who had required considerable attention because of irregular attendance at school.

Part of the shifting is probably due to the fact that the majority of the children seeking employment have no definite knowledge of what they want to do and merely "look for a job," taking the first one they can get regardless of whether it is what they would be interested in or whether it holds any hope of advancement. Some months ago a study was made of the kinds of occupations boys and girls between fourteen and sixteen years of age in Springfield were engaged in. The number employed in a manner offering opportunity for them to become skilled workers was negligible.

Perhaps with the opening of the Continuation School next fall it may be found possible to awaken in children a desire to secure employment suited to them and furnishing opportunities for advancement and also to assist them in securing such employment. The opening of the Continuation School will require considerable more work of the Attendance Department, for there are in Springfield more than twelve hundred employed children who will be required to attend school at least four hours a week while employed, and twenty hours a week during periods of non-employment. This will require much follow-up work and if it is to be properly done provision should be made for the appointment of an additional attendance officer.

Respectfully submitted,

JOHN A. PARKER,
Attendance Officer.

December 29, 1919.

STATISTICS

ACCOMPANYING

Superintendent's Report.

TABLE SHOWING VALUE OF LAND AND BUILDINGS AND EQUIPMENT.

SCHOOLS.	Land.	Buildings.	Total.
Acushnet Avenue,	$16,000.00	$47,277.78	$63,277.78
Alden Street,	3,800.00	14,556.76	18,356.76
Armory Street,	8,500.00	146,411.72	154,911.72
Barrows,	18,700.00	44,842.44	63,542.44
Berkshire Avenue,	3,981.78	.....	3,981.78
Boston Road,	1,500.00	12,848.02	14,348.02
Brightwood,	16,040.38	162,453.31	178,493.69
Buckingham,	45,000.00	166,241.21	211,241.21
Carew Street,	18,000.00	46,557.32	64,557.32
Carlisle,	3,000.00	200.00	3,200.00
Central High,	172,800.00	350,967.93	523,767.93
Central Street,	20,000.00	77,264.68	97,264.68
Central Street (374),	.....	1,112.59	1,112.59
Charles Street,	4,000.00	14,704.68	18,704.68
Chestnut Street,	41,000.00	326,883.83	367,883.83
Dry Bridge,	1,000.00	1,546.33	2,546.33
Eastern Avenue,	5,400.00	30,461.42	35,861.42
East Union Street,	5,000.00	24,961.62	29,961.62
Emery Street Shop and Storehouse,	7,000.00	47,579.90	54,579.90
Five Mile Pond,	500.00	3,324.02	3,824.02
Forest Park,	30,000.00	277,363.94	307,363.94
Glenwood,	2,500.00	16,548.45	19,048.45
High School of Commerce,	174,200.00	736,892.24	911,092.24
Homer Street,	24,100.00	104,085.95	128,185.95
Hooker,	148,600.00	62,495.09	211,095.09
New Hooker,	29,500.00	268,908.38	298,408.38
Howard Street,	38,600.00	197,623.85	236,223.85
Grammar, I. O.,	6,500.00	186,283.02	192,783.02
Primary, I. O.,	3,000.00	12,791.92	15,791.92
Jefferson Avenue,	7,500.00	41,629.28	49,129.28
Kensington Avenue,	10,500.00	98,516.02	109,016.02
Liberty,	8,891.34	77,415.08	86,306.42
Lincoln,	24,000.00	91,321.21	115,321.21
Portables:			
Dry Bridge,	.....	1,550.00	1,550.00
Forest Park,	.....	4,225.00	4,225.00
Homer Street,	.....	3,546.96	3,546.96
Rushville,	.....	3,482.34	3,482.34
White Street,	.....	1,525.00	1,525.00
School Street,	35,500.00	20,321.23	55,821.23
Sixteen Acres,	500.00	2,587.17	3,087.17
State Street,	69,000.00	78,369.36	147,369.36
Strickland,	5,000.00	21,040.09	26,040.09
Sumner Avenue,	49,000.00	60,100.14	109,100.14
Tapley,	22,000.00	70,773.54	92,773.54
Technical High,	157,176.80	286,936.99	444,113.79
Vernon Street Building,	42,900.00	3,155.53	46,055.53
Vocational,	79,800.00	43,883.83	123,683.83
New Vocational,	.....	13.48	13.48
Wachogue,	200.00	800.00	1,000.00
Washington,	18.46	152,012.00	152,030.46
White Street,	14,000.00	49,915.48	63,915.48
William Street,	14,000.00	58,885.75	72,885.75
Worthington Street,	12,000.00	67,353.06	79,353.06
	$1,400,208.76	$4,622,546.94	$6,022,755.70
Operating Equipment:—			
Furniture and Fixtures,		$186,621.12	
Miscellaneous,		30,256.81	
			216,877.93
Books and Educational Equipment,			240,737.95
			$6,480,371.58

FINANCIAL SUMMARY.

(For the fiscal year ending November 30, 1919.)

	Appropriations. Original.	Additional.	Total.	Plus or Minus Transfers.	Net Appropriations.	Expenditures.	Balances.
Administration,	$29,209.67	$875.00	$30,084.67	—$300.00 + 775.00	$30,559.67	$30,347.10	$212.57
Central High School,	92,850.00	3,825.00	96,675.00	—600.00	96,075.00	95,010.51	1,064.49
Technical High School,	91,725.00	3,900.00	95,625.00	—3,014.00	92,611.00	92,159.77	451.23
Evening School of Trades,	7,435.00		7,435.00	+131.00	7,566.00	7,561.65	4.35
High School of Commerce,	101,200.00	4,500.00	105,700.00		105,700.00	105,149.09	550.91
Evening High School,	8,395.00		8,395.00		8,395.00	8,283.24	111.76
Vocational School,	21,970.00	675.00	22,645.00		22,645.00	18,223.00	4,422.00
Vocational Evening School,	2,556.00		2,556.00		2,556.00	1,930.79	625.21
Vocational—Special,	50.00		50.00		50.00	34.00	16.00
Graded Schools,	713,237.00	42,750.00	755,987.00	—525.00	755,462.00	755,271.60	190.40
Kindergartens,	47,905.00	3,675.00	51,580.00		51,580.00	50,193.34	1,386.66
Elementary Evening Schools,	5,240.00		5,240.00	+350.00	5,590.00	4,940.98	649.02
Evening School Extension,	3,741.00		3,741.00		3,741.00	2,024.00	1,717.00
Summer Schools,	10,390.00		10,390.00		10,390.00	9,269.59	1,120.41
Total,	$1,135,903.67	$60,200.00	$1,196,103.67	—$3,183.00	$1,192,920.67	$1,180,398.66	$12,522.01
*Schoolhouse Property,	262,755.95		262,755.95		262,755.95	256,364.52	6,391.43
Total,	$1,398,659.62	$60,200.00	$1,458,859.62	—$3,183.00	$1,455,676.62	$1,436,763.18	$18,913.44
High Schools Lunch,	39,606.00		39,606.00	—950.00 +2,883.00	41,539.00	41,508.85	30.15
Graded Schools Lunch,	1,000.00		1,000.00		1,000.00	896.71	103.29
Total,	$1,439,265.62	$60,200.00	$1,499,465.62	—$1,250.00	$1,498,215.62	$1,479,168.74	$19,046.88
Smith-Hughes Fund, 1918-19,	708.84		708.84		708.84	708.84	
Smith-Hughes Fund, 1919-20,	1,174.40		1,174.40		1,174.40	234.89	939.51
Total,	$1,441,148.86	$60,200.00	$1,501,348.86	—$1,250.00	$1,500,098.86	$1,480,112.47	$19,986.39

*Under Control of City Property Committee.

EXPENDITURES

ADMINISTRATION.

Salaries.		
Superintendent,	$5,200.00	
*Assistant Superintendent,	1,075.00	
Secretary of the School Committee,	100.00	
Chief Clerk,	2,575.00	
Clerks,	7,192.10	
Attendance Officers,	6,200.00	
		$22,342.10
Stationery and Office Supplies,		535.38
Printing,		1,034.21
Advertising,		94.17
Communication Service.		
Postage,	581.94	
Telephone,	89.25	
Telegraph,	15.68	
		686.87
Transportation Service.		
Freight and Express,		4.33
Miscellaneous Supplies and Expenses.		
Auto upkeep	250.00	
Magazine subscriptions,	49.35	
Miscellaneous,	12.15	
		311.50
Traveling Expenses,		532.59
Maintenance and Repairs of Equipment,		71.09
Replacement of Equipment,		83.03
New Equipment,		30.88
STOREHOUSE.		
Salary—Clerk,		1,175.00
Expenses.		
Assistance,	1,943.02	
Telephone,	75.99	
Delivering supplies,	1,336.89	
Miscellaneous,	90.05	
		3,445.95
		$30,347.10

*In addition to salary as Supervisor of Elementary Schools and Kindergartens, which is included in item, "Salaries—Supervisors," under the account in Graded Schools.

CENTRAL HIGH SCHOOL.

ADMINISTRATION.

Salary—Principal,		$4,075.00
Salaries—Clerical Assistance,		1,900.15
Office Supplies,		95.70
Printing,		590.35
Communication Service.		
Postage,	$93.76	
Telephone,	10.38	
		104.14
Transportation Service.		
Freight and Express,		24.76
Traveling Expenses,		104.40

OPERATION.

Salaries—Teachers.		
Heads of departments,	18,676.50	
Teachers,	63,401.49	
		82,077.99
Salaries—Miscellaneous Assistance.		
Piano accompanist,	88.34	
Laboratory,	190.27	
Physical education,	400.94	
Drawing,	9.08	
Office,	41.01	
Miscellaneous,	12.30	
		741.94
Books.		
Text,	1,389.95	
Reference,	192.71	
Magazine subscriptions,	31.25	
Binding,	154.80	
Covers,	53.45	
		1,822.16
Stationery Supplies.		
Paper.		
Drawing, $97.47		
Notebooks, 181.36		
Envelopes, 15.25		
Blotting, 1.55		
Pressboard and cardboard, 221.02		
Miscellaneous, 14.37		
	531.02	
Ink,	28.00	
Paste, etc.,	8.40	
Pencils,	134.35	
Pens and holders,	19.44	
Rubber erasers,	14.58	
		735.79

Supplies Used in Special Courses.			
Science.			
Small glassware and other small laboratory articles,	$187.22		
Chemicals,	59.89		
Miscellaneous,	412.43		
		$659.54	
Domestic Science.			
Provisions,	150.76		
Miscellaneous,	12.97		
Sewing supplies,	52.24		
		215.97	
Physical Education.			
Rent of field,	41.67		
Miscellaneous,	85.00		
		126.67	
Drawing.			
Paints,	195.60		
Miscellaneous,	170.20		
		365.80	
			$1,367.98
Other Operating Supplies.			
Maps, charts, and globes,		26.65	
Sponges,		9.00	
Pencil sharpeners,		21.60	
Scissors,		6.70	
Paper towels,		242.99	
Linen towels,		9.50	
Miscellaneous,		19.75	
			336.19
Other Operating Expenses.			
Graduation expenses,		156.21	
Miscellaneous,		12.40	
			168.61
Maintenance and Repair of Equipment.			
Science,		18.45	
Sewing,		.70	
Miscellaneous,		36.50	
			55.65
Replacement of Equipment.			
Science,		173.61	
Miscellaneous,		18.40	
			192.01
New Equipment.			
Science,		247.54	
Physical education,		89.80	
Miscellaneous,		280.35	
			617.69
			$95,010.51

TECHNICAL HIGH SCHOOL.

ADMINISTRATION.

Salary—Principal,			$3,725.00
Salaries—Clerical Assistance,			2,007.76
Office Supplies,			186.14
Printing,			569.13
Communication Service.			
Postage,		$76.00	
Telephone,		42.98	
			118.98
Transportation Service.			
Freight and Express,			63.47
Traveling Expenses,			84.62

OPERATION.

Salaries—Teachers.			
Heads of departments,		18,961.00	
Teachers,		58,538.60	
			77,499.60
Salaries—Miscellaneous Assistance.			
Tool room,		425.31	
Laboratory,		49.00	
Design,		24.80	
Physical education,		47.70	
Piano accompanist,		88.33	
Miscellaneous,		199.29	
			834.43
Books.			
Text,		1,046.70	
Reference,		109.22	
Reference (outstanding orders),		88.10	
Magazine subscriptions,		20.00	
Binding,		101.48	
Covers,		102.00	
			1,467.50
Stationery Supplies.			
Paper.			
White,	$228.15		
Manila,	28.60		
Notebooks,	32.00		
Notebooks (outstanding orders),	212.50		
Envelopes,	1.13		
Blotting,	7.05		
		509.43	
Paste,		2.40	
Pencils,		20.25	
Pens and holders,		16.75	
Thumb tacks and paper fasteners,		9.90	
Rubber erasers,		6.21	
Rubber bands,		2.58	
			567.52

Supplies Used in Special Courses.			
Chemistry and Physics.			
Small glassware and other laboratory articles,....	$209.50		
Chemicals,.....	77.33		
Miscellaneous,.....	178.24		
Miscellaneous (outstanding orders),.....	38.40		
		$503.47	
Drawing.			
Small drawing tools,.....	47.16		
Paper, pencils, and ink,.....	312.51		
Miscellaneous,.....	21.53		
		381.20	
Machine Shop.			
Small tools,.....	219.24		
Castings and metals,.....	269.56		
Castings and metals (outstanding orders),.....	5.80		
Miscellaneous,.....	50.87		
		545.47	
Wood Work.			
Lumber,.....	175.02		
Small tools,.....	229.25		
Miscellaneous,.....	67.36		
		471.63	
Household Science.			
Provisions,.....	252.87		
Miscellaneous,.....	87.81		
		340.68	
Household Arts,.....		88.28	
Design.			
Small tools,.....	23.79		
Miscellaneous,.....	185.10		
		208.89	
Forging.			
Coal,.....	87.00		
Coal (outstanding orders),.....	28.50		
Metals,.....	284.53		
Miscellaneous,.....	17.79		
		517.82	
Physical Education.			
Rent of field,.....	41.66		
Miscellaneous,.....	152.29		
		193.95	
			$3,246.29
Other Operating Supplies.			
Paper towels,.....		216.50	
Miscellaneous,.....		87.64	
			304.14
Other Operating Expenses.			
Graduation expenses.....		170.29	
Miscellaneous,.....		2.45	
			172.74

Maintenance and Repair of Equipment.		
Chemistry and physics,	$57.18	
Machine shop,	18.53	
Wood work,	24.83	
Household science,	27.00	
Household arts,	86.00	
Design,	26.39	
Gymnasium,	36.18	
Miscellaneous,	155.87	
		$381.98
Replacement of Equipment.		
Chemistry and physics,	47.35	
Wood work,	88.83	
Household science,	6.35	
		142.53
New Equipment.		
Physics and chemistry,	183.30	
Drawing,	66.00	
Machine shop,	15.00	
Household science,	41.63	
Sheet metal,	129.05	
Automobile,	125.00	
Gymnasium,	81.75	
Miscellaneous,	196.11	
		837.84
		$92,159.77

EVENING SCHOOL OF TRADES.

ADMINISTRATION.

Salary—Principal,		$455.00
Salaries—Clerical Assistance,		241.50
Printing,		35.71

OPERATION.

Salaries—Teachers,		6,026.50
Salaries—Miscellaneous Assistance,		150.00
Supplies Used in Special Courses.		
Machine shop,	$21.24	
Electricity,	160.55	
Electricity (outstanding orders),	8.10	
Plumbing,	158.57	
Plumbing (outstanding orders),	44.90	
Wood work,	15.00	
Sewing,	88.48	
		496.84
Other Operating Expenses,		39.00
New Equipment,		117.10
		$7,561.65

HIGH SCHOOL OF COMMERCE.

ADMINISTRATION.			
Salary—Principal,			$3,875.00
Salaries—Clerical Assistance,			1,980.00
Stationery and Office Supplies,			10.76
Printing,			509.48
Communication Service.			
Postage,		$25.00	
Telephone,		20.09	
			45.09
Transportation Service.			
Freight and Express,			76.72
Traveling Expenses,			113.58
OPERATION.			
Salaries—Teachers.			
Heads of departments,		13,600.00	
Teachers,		71,784.97	
			85,384.97
Salaries—Matrons,			850.00
Salaries—Miscellaneous Assistance.			
Moving pictures,		346.50	
Piano accompanist,		88.33	
Physical education,		144.41	
Office,		7.63	
Miscellaneous,		14.50	
			601.37
Books.			
Text,		2,149.62	
Text (outstanding orders),		75.00	
Magazine subscriptions,		49.84	
Reference,		320.31	
Binding,		74.70	
Mending materials,		2.10	
Covers,		2.73	
			2,674.30
Stationery Supplies.			
Paper.			
White,	$133.20		
Drawing,	11.51		
Bookkeeping,	1,284.52		
Notebooks,	220.05		
Notebooks (outstanding orders),	127.50		
Blotting,	9.72		
Pressboard and covers,	56.52		
Typewriting,	419.41		
Miscellaneous,	109.91		
		2,374.34	
Ink,		89.75	
Paste, etc.,		12.00	
Pencils,		115.80	
Pens and holders,		88.90	

Thumb tacks and fasteners,.....		$50.71	
Rubber erasers,.....		2.25	
Rubber bands,.....		7.42	
Miscellaneous,.....		34.25	
			$2,775.42
Supplies and Material Used in Special Courses.			
Laboratory.			
Small glassware and other small laboratory articles,.....	$78.90		
Small glassware and other laboratory small articles (outstanding orders),.....	13.40		
Chemicals,.....	264.39		
Miscellaneous,.....	3.78		
		360.47	
Shop.			
Lumber,.....	337.45		
Small tools and hardware,.....	12.82		
Miscellaneous,.....	68.47		
		418.74	
Cookery.			
Provisions,.....	919.31		
Miscellaneous,.....	50.40		
		969.71	
Sewing,.....		135.07	
Physical Education.			
Rent of field,.....	41.67		
Laundry,.....	1,049.68		
Miscellaneous,.....	132.29		
		1,223.64	
Drawing,.....		9.00	
			3,116.63
Other Operating Supplies.			
Paper towels,.....		145.24	
Outline maps,.....		88.83	
Miscellaneous,.....		215.92	
			449.99
Other Operating Expenses.			
Moving pictures,			
Films,.....	639.26		
Miscellaneous,.....	46.74		
		686.00	
Graduation expenses,.....		146.00	
			832.00
Maintenance and Repair of Equipment,.....			163.72
Replacement of Equipment,.....		411.84	
Replacement of Equipment (outstanding orders),.....		154.90	
			566.74
New Equipment.			
Laboratory,.....		45.75	
Laboratory (outstanding orders),.....		143.81	
Cookery,.....		11.00	
Miscellaneous,.....		853.26	
Miscellaneous (outstanding orders),.....		70.00	
			1,123.32
			$105,149.09

EVENING HIGH SCHOOL.

ADMINISTRATION.			
Salary—Principal,			$408.00
Salaries—Clerical Assistance,			191.50
Stationery and Office Supplies,			13.09
Printing,			132.88
Transportation Service.			
Freight and Express,			1.80
OPERATION.			
Salaries—Teachers,			6,516.25
Books,			514.99
Stationery Supplies.			
Paper.			
Manila,	$3.95		
Drawing,	11.32		
Bookkeeping,	151.00		
Notebooks,	18.46		
Notebooks (outstanding orders),	24.37		
Envelopes,	.09		
Blotting,	3.09		
Pressboard and cardboard,	6.60		
Miscellaneous,	4.35		
		$223.23	
Paste, etc.,		1.45	
Pencils,		39.79	
Pens and holders,		21.00	
Thumb tacks and paper fasteners,		1.33	
Rubber erasers,		.70	
Rubber bands,		.43	
			287.93
Supplies and Materials Used in Special Courses,			102.00
Other Operating Supplies,			31.21
Other Operating Expenses.			
Graduation expenses,		20.53	
Models,		15.00	
			35.53
New Equipment,			48.56
			$8,283.24

VOCATIONAL SCHOOL.

ADMINISTRATION.			
Salary—Principal,			$1,930.64
Salaries—Clerical Assistance,			1,046.33
Stationery and Office Supplies,			7.26
Communication Service.			
Postage,		$61.50	
Telephone,		8.05	
			69.55

Transportation Service.			
Freight and Express,			$29.49
Traveling Expenses,			138.31
OPERATION.			
Salaries—Teachers,			12,218.99
Salaries—Miscellaneous,			21.38
Books.			
Text,		$25.50	
Reference,		3.50	
Magazine subscriptions,		16.00	
			45.00
Stationery Supplies.			
Paper.			
White,	$4.85		
Manila,	8.80		
Blotting,	.22		
Pressboard and cardboard,	2.00		
		15.87	
Ink,		1.50	
Paste, etc.,		.60	
Pencils,		16.65	
Pens and holders,		3.36	
Thumb tacks and paper fasteners,		1.50	
Rubber bands,		1.29	
			40.77
Materials and Supplies Used in Special Courses.			
Carpentry.			
Lumber,	309.23		
Lumber (outstanding order),	17.50		
Hardware,	30.80		
Miscellaneous,	76.14		
Miscellaneous (outstanding order),	22.67		
		456.34	
Cabinet.			
Lumber,	296.35		
Lumber (outstanding order),	17.50		
Hardware,	22.15		
Miscellaneous,	86.97		
Miscellaneous (outstanding order),	22.67		
		445.64	
Pattern.			
Lumber,	145.85		
Miscellaneous,	34.94		
Miscellaneous (outstanding order),	22.66		
		203.45	
Machine Shop.			
Small tools,	1.25		
Metals and castings,	275.63		
Miscellaneous,	161.53		
Miscellaneous (outstanding order),	22.66		
		461.07	
Physical Education,		[2.88	
			1,569.38

Other Operating Supplies.		
First aid supplies,	$4.23	
Miscellaneous,	3.16	
		$7.39
Other Operating Expenses.		
Graduation Expenses,		1.40
Maintenance and Repairs of Equipment.		
Printing,	6.00	
Carpentry,	5.78	
Cabinet,	5.79	
Pattern,	3.16	
Machine shop,	9.52	
Miscellaneous,	8.08	
		38.33
Replacement of Equipment.		
Printing,	43.38	
Printing (outstanding order),	35.15	
Carpentry,	22.01	
Cabinet,	22.01	
Pattern,	20.17	
Machine shop,	569.03	
		711.75
New Equipment.		
Carpentry,	37.69	
Cabinet,	24.95	
Pattern,	1.49	
Machine shop,	31.90	
Miscellaneous,	23.00	
Miscellaneous (outstanding order),	228.00	
		347.03
		$18,223.00

EVENING VOCATIONAL SCHOOL.

Salaries,	$1,718.85
Supplies,	137.94
Other Expenses,	18.40
New Equipment,	55.60
	$1,930.79

VOCATIONAL—SPECIAL.

Tuition.	
Bristol County Agricultural School,	$34.00

GRADED SCHOOLS.

ADMINISTRATION.

Salaries.		
Supervisors,	$26,124.76	
Supervising Principals,	53,975.25	
		$80,100.01

Stationery and Office Supplies,			$520.11
Printing,			2,811.16
Communication Service.			
Postage,		$20.00	
Telephone,		1,322.37	
			1,342.37
Transportation Service.			
Freight and Express,			383.84
Miscellaneous Supplies and Expenses,			47.62
OPERATION.			
Salaries—Teachers,			596,807.43
Salaries—Matrons,			6,142.50
Salaries—Miscellaneous Assistance.			
Industrial work,		433.88	
Physical education,		302.00	
Care of lunch rooms,		181.00	
			916.88
Transportation of Pupils,			8,715.50
Support of Truants,			995.96
Books.			
Text,		11,913.08	
Text (outstanding orders),		783.50	
Reference,		876.71	
Binding,		446.63	
Mending materials,		226.65	
Covers,		1,506.50	
Writing copies,		84.56	
Writing copies (outstanding orders),		30.00	
Music,		43.85	
			15,916.48
Stationery Supplies.			
Paper.			
White,	$3,266.62		
White (outstanding orders),	901.56		
Manila,	1,961.40		
Drawing,	1,914.11		
Bookkeeping,	203.68		
Notebooks,	915.93		
Envelopes,	419.12		
Blotting,	230.98		
Pressboard and cardboard,	1,290.36		
Miscellaneous,	509.85		
		11,613.11	
Ink,		294.31	
Paste, etc.,		484.45	
Pencils,		1,966.98	
Thumb tacks and paper fasteners,		422.28	
Rubber erasers,		241.09	
Rubber bands,		105.26	
Miscellaneous,		75.75	
			15,203.23

Supplies Used in Special Courses.			
Physical Education.			
Baseball,	$194.84		
Field day,	74.12		
Gymnasium,	44.09		
Phonograph records and music,	108.55		
Miscellaneous,	708.56		
Miscellaneous (outstanding orders),	90.00		
		$1,219.66	
Industrial Work.			
Lumber,	4,071.81		
Lumber (outstanding orders),	230.00		
Metals,	772.69		
Metals (outstanding orders),	42.85		
Cement, sand, etc.,	113.21		
Paints,	553.23		
Hardware,	1,466.06		
First aid supplies,	11.40		
Printing supplies,	132.65		
Printing supplies (outstanding orders),	13.00		
Mechanical drawing,	113.41		
Mechanical drawing (outstanding orders),	7.50		
Hand work,	755.99		
Hand work (outstanding orders),	163.20		
Miscellaneous,	243.77		
		8,690.77	
Household Science and Practical Arts.			
Provisions,	2,062.43		
Ice,	58.46		
Dishes and cooking utensils,	146.12		
Laundry,	54.48		
Miscellaneous,	58.80		
Sewing supplies,	964.18		
		3,344.47	
Science.			
Junior High supplies,	154.97		
Gardens,	215.43		
Elementary science supplies,	103.99		
		474.39	
Drawing.			
Paint,	490.30		
Paint brushes and pans,	137.97		
Drawing crayons,	348.20		
Miscellaneous,	725.09		
		1,701.56	
			$15,430.85
Supplies Used in Open-Air Rooms.			
Provisions,		2,908.22	
Laundry,		126.94	
Miscellaneous,		129.83	
			3,164.99
Other Miscellaneous Supplies.			
Kindergarten material,		220.87	
Outline maps,		72.82	
Compasses,		62.94	
Rules,		171.33	

Maps, charts, and globes,	$87.54	
Blackboard erasers,	211.10	
Sponges,	490.05	
Chalk,	133.44	
Pencil sharpeners,	186.00	
Mats,	206.10	
Burlap,	74.25	
Hygiene supplies,	167.14	
Paper towels,	1,298.40	
Linen towels,	594.60	
Word and number builders,	531.18	
Hektographs,	141.60	
Miscellaneous,	695.81	
		$5,295.17
Other Operating Expenses,		264.81
Maintenance and Repair of Equipment.		
Physical education,	65.50	
Industrial work,	122.75	
Household science and practical arts,	67.25	
Tuning and repairing pianos,	54.75	
Miscellaneous,	32.39	
		342.64
Replacement of Equipment.		
Physical education,	14.40	
Industrial work,	682.22	
Household science and practical arts,	127.68	
Science,	49.55	
Miscellaneous,	202.40	
		1,076.25
New Equipment.		
Physical education,	586.70	
Physical education (outstanding order),	122.59	
Industrial work,	544.41	
Industrial work (outstanding orders),	989.33	
Household science and practical arts,	456.04	
Science,	72.95	
Psychological laboratory,	108.25	
Miscellaneous,	1,913.53	
		4,793.80
		$755,271.60

KINDERGARTENS.

Salaries—Teachers,		$48,853.01
Supplies,		802.39
Other Operating Expenses,		
Christmas allowance,	$52.00	
Tuning pianos,	25.00	
Miscellaneous,	27.01	
		104.01
Replacement of Equipment,		218.00
New Equipment,		215.93
		$50,193.34

ELEMENTARY EVENING SCHOOLS.

Salaries—Principals,		$869.50
Printing,		12.21
Salaries—Teachers,		3,623.75
Books,		53.83
Stationery Supplies,		23.83
Other Supplies,		2.86
Other Expenses,		5.00
Equipment,		350.00
		$4,940.98

EVENING SCHOOL EXTENSION.

Salaries,		$1,856.00
Books,		64.74
Miscellaneous Expenses.		
Printing,	$77.04	
Lectures,	10.00	
Moving picture films,	25.00	
Miscellaneous,	30.28	
		142.32
Equipment,		460.94
		$2,024.00

SUMMER SCHOOLS.

Salaries,		$8,998.50
Miscellaneous Supplies,		157.82
Miscellaneous Expenses,		113.27
		$9,269.59

SPECIAL.

Smith-Hughes Fund, 1918-1919,		$708.84
Smith-Hughes Fund, 1919-1920,		234.89

HIGH SCHOOLS LUNCH.

Salaries.		
Director,	$1,590.00	
Assistant director,	955.00	
Other assistance,	8,041.48	
		$10,586.48
Supplies.		
Provisions,	29,147.71	
Ice,	300.18	
Napkins,	7.56	
Cleaning supplies,	89.15	
Miscellaneous,	60.77	
		29,605.37

Other Expenses.		
Carfare,	$52.38	
Postage,	6.20	
Laundry,	239.95	
Telephone,	10.47	
Freight and express,	11.84	
Miscellaneous,	54.44	
		$375.28
Maintenance and Repair of Equipment,		18.41
Replacement of Equipment,		228.31
New Equipment,		700.00
		$41,508.85

GRADED SCHOOLS LUNCH.

Salaries,		$183.60
Supplies.		
Provisions,	$489.85	
Miscellaneous,	37.56	
		527.41
Miscellaneous Expenses,		7.50
Equipment,		178.20
		$896.71

SCHOOL BUILDINGS.

Expenditures for the operation and maintenance of school buildings including alterations and permanent improvements, and for new buildings, are made by the Committee on City Property of the City Government, not by the School Board. They are included in this report as a matter of information and convenience.

	Appropriations.	Expenditures.	Balances.
Administration,	$7,520.00	$7,346.70	$173.30
Operation,	206,864.44	202,230.01	4,634.43
Maintenance,	48,371.51	46,787.81	1,583.70
Total,	$262,755.95	$256,364.52	$6,391.43

Expenditures for New Buildings.

Technical High School,	$22,521.41	
Vocational School,	13.48	(Special account)
Brightwood School,	9,540.38	
Brightwood School,	7,000.00	(Special account)
Chestnut Street School,	55,391.61	
Chestnut Street School,	1,500.00	(Special account)
Forest Park School,	182,516.86	
Forest Park School,	6,500.00	(Special account)
Homer Street School,	78,153.80	
Homer Street School,	23,500.00	(Special account)
Hooker School,	37,763.24	
Liberty School,	9,219.59	(Special account)
Rushville School,	3,881.78	
Washington School,	24,718.84	
Washington School,	9,862.14	(Special account)
Total,	$472,083.13	

RECEIPTS.

(For the fiscal year ending November 30, 1919.)

	Tuition.	From Commonwealth.	Books and Materials sold, etc.	Moving Pictures.	Recovered Expenditures.	Total.
Central High School,	$8,214.00		$38.25			$8,252.25
Technical High School,	13,482.00		98.25			13,580.25
Evening School of Trades,	2,438.75		18.62			2,457.37
High School of Commerce,	7,422.00		126.61	$1,026.60		8,575.21
Evening High School,	838.50					838.50
Vocational School,	1,857.00	$10,161.34	428.32			12,446.66
Vocational Evening School,	604.50					604.50
Graded Schools,	7,403.50	285.00	573.74		$7.24	8,269.48
Kindergartens,			5.00			5.00
Total,	$42,260.25	$10,446.34	$1,288.79	$1,026.60	$7.24	$55,029.22
High Schools Lunch,						38,959.16
Graded Schools Lunch,						370.69
Total,						$94,359.07

COST PER PUPIL.

(Based on average number belonging during fiscal year.)

SCHOOLS.	Teachers' Salaries.	Books.	Supplies and Other Expenses of Instruction.	Repair and Replacement of Equipment.	Transportation of Pupils.	New Equipment.	Total.	Administration Expenses.	Total.
Central High,	$117.18	$2.48	$8.39	$0.34	....	$0.84	$129.23	$3.41	$132.64
High School of Commerce,	92.40	3.12	12.12	.86	....	1.31	109.81	2.89	112.70
Technical High,	123.69	2.23	12.34	.80	....	1.28	140.34	3.82	144.16
Vocational,	150.05	.46	30.32	7.67	....	3.55	192.05	5.06	197.11
Graded,	44.32	1.03	3.45	.09	$0.24	.31	49.44	1.30	50.74
Kindergartens,	39.31	....	.73	.18	....	.17	40.39	1.07	41.46
Evening High,	10.29	.77	1.18	....	....	.07	12.31	.32	12.63
Evening Trades,	25.72	....	3.82	....	....	.47	30.01	.79	30.80
Evening Elementary,	16.39	.20	.17	....	....	1.32	18.58	.49	19.07
Evening Vocational,	19.90	....	1.45	....	....	.52	21.87	.58	22.45
Summer Schools,	7.02	....	.21	....	....	....	7.23	.19	7.42
AVERAGES.									
Day—High,	$109.64	$2.65	$10.97	$0.67	....	$1.15	$125.08	$3.33	$128.41
Day—Elementary,	44.57	.95	3.40	.14	$0.22	.32	49.60	1.30	50.90
All DAY Schools,	52.23	1.15	4.30	.20	.19	.42	58.49	1.54	60.03
All EVENING Schools,	15.43	.44	1.51	....	....	.44	17.82	.46	18.28

SCHOOL CENSUS.

Population of City, 1915 (State Census),..... 102,971
Population of City, 1919 (Assessors' Estimate),..... 135,000

Number of children in Springfield between 5 and 16 years of age on April 1, 1919:

	5 yrs. to 7 yrs.	7 yrs. to 14 yrs.	14 yrs. to 16 yrs.	Total.
Public Schools,.....	Boys 1,667 Girls 1,551 3,218	Boys 6,088 Girls 6,089 12,177	Boys 1,222 Girls 1,257 2,479	Boys 8,977 Girls 8,897 17,874
Parochial Schools,..	Boys 232 Girls 239 471	Boys 1,257 Girls 1,407 2,664	Boys 140 Girls 186 326	Boys 1,629 Girls 1,832 3,461
Otherwise Instructed,.....	Boys 6 Girls 5 11	Boys 69 Girls 93 162	Boys 54 Girls 72 126	Boys 129 Girls 170 299
Not Attending School,.....	Boys 102 Girls 84 186	Boys 16 Girls 29 45	Boys 13 Girls 28 41	Boys 131 Girls 141 272
At Work,.....	Boys .. Girls	Boys .. Girls	Boys 492 Girls 395 887	Boys 492 Girls 395 887
Total,.....	Boys 2,007 Girls 1,879 3,886	Boys 7,430 Girls 7,618 15,048	Boys 1,921 Girls 1,938 3,859	Boys 11,358 Girls 11,435 22,793

Illiterate Minors, Boys 193
Girls 101
294

Number of children in Springfield between 5 and 16 years of age:—

September 1, 1910.....	14,659
September 1, 1911.....	15,221
September 1, 1912.....	15,915
September 1, 1913.....	16,855
September 1, 1914.....	17,480
September 1, 1915.....	18,129
April 1, 1917.....	20,018
April 1, 1918.....	21,434
April 1, 1919.....	22,793

SUMMARY,

SCHOOL ENROLLMENT AND ATTENDANCE.

(For the school year, September 4, 1918—June 27, 1919.)

SCHOOLS.	Enrollment.	Average Number Belonging.	Average Number Attending.	*Per cent. of Attendance.
Junior College,	39	32.4	30.4	93.8
Senior High,	2,365	2,154.7	1,990.0	92.4
Elementary and Junior High,	17,672	15,468.5	13,980.7	90.4
Kindergartens,	2,329	1,204.7	929.4	77.1
All Day Schools,	22,405	18,860.3	16,930.5	89.8
Evening High,	1,164	654.5	466.4	71.4
Evening Elementary,	500	246.9	185.9	75.3
Evening Trades,	668	233.9	187.3	81.5
Evening Vocational,	196	125.7	85.3	67.5
All Evening Schools,	2,528	1,261.0	924.9	74.1

*Obtained by dividing aggregate attendance by aggregate membership.

SUMMER SCHOOLS.

(For the six weeks, July 7—August 15, 1919.)

SCHOOLS.	Enrollment.	Average Number Belonging.	Average Number Attending.	*Per cent. of Attendance.
High School of Commerce (Senior High),	252	228.9	215.2	94.0
High School of Commerce (Junior High),	331	273.6	246.3	90.0
High School of Commerce (Grades V and VI),	278	228.4	201.5	88.2
	861	730.9	663.0	90.7
Chestnut Street, Junior High,	306	251.3	229.8	91.5
Chestnut Street, Grades V and VI,	288	224.6	204.4	90.9
	594	475.9	434.2	91.2
†Forest Park, Grades V and VI,	92	75.7	62.5	82.6
Totals,	1,547	1,282.5	1,159.7	90.4

*Obtained by dividing aggregate attendance by aggregate membership.
†Kensington Avenue Building.

TABLE SHOWING NUMBER OF PUPILS COMPLETING

(For the school year, Se

	Total Number Completing Junior High Work.			Entered						
				Central High.			High School of Commerce.			Tech
	Total	Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total
H. S. Commerce.										
February, 1919,.....	57	15	42	5	1	4	42	8	34	8
June, 1919,.....	81	28	53	3	1	2	56	12	44	8
Total,.....	138	43	95	8	2	6	98	20	78	16
Buckingham.										
February, 1919,.....	34	14	20	22	6	16	..	..	..	12
June, 1919,.....	37	18	19	17	2	15	1	..	1	18
Total,.....	71	32	39	39	8	31	1	..	1	30
Chestnut Street.										
February, 1919,.....	81	41	40	12	5	7	38	10	28	27
June, 1919,.....	108	40	68	24	15	9	55	4	51	22
Total,.....	189	81	108	36	20	16	93	14	79	49
Forest Park.										
February, 1919,.....	102	43	59	43	15	28	31	10	21	27
June, 1919,.....	102	37	65	34	8	26	32	5	27	32
Total,.....	204	80	124	77	23	54	63	15	48	59
Myrtle Street.										
February, 1919,.....	11	6	5	1	..	1	5	2	3	5
June, 1919,.....	13	9	4	4	4	..	5	3	2	2
Total,.....	24	15	9	5	4	1	10	5	5	7
State Street.										
February, 1919,.....	64	41	23	9	6	3	21	9	12	34
June, 1919,.....	105	59	46	22	16	6	37	8	29	34
Total,.....	169	100	69	31	22	9	58	17	41	68
Totals.										
February, 1919,.....	349	160	189	92	33	59	187	39	98	113
June, 1919,.....	446	191	255	104	46	58	186	32	154	116
Total,.....	795	351	444	196	79	117	323	71	252	229

NUMBER OF TEACHERS' POSITIONS. DAY SCHOOLS.

(For the school year, September 4, 1918—June 27, 1919.)

	First Semester.			Second Semester.		
	Men.	Women.	Total.	Men.	Women.	Total.
Supervisors,	2	11	13	2	11	13
High Schools						
Supervising Principals,	3		3	3		3
Heads of Departments,	16	6	22	16	6	22
Teachers, full time, senior high,	30	85	115	33	84	117
Teachers, full time, senior and junior high in High School of Commerce,	3	8	11	3	7	10
Teachers, full time, junior high in High School of Commerce,		1	1		1	1
Vocational School						
Director,	1		1	1		1
Teachers,	6		6	8		8
Elementary and Junior High Schools						
Supervising Principals,	9	16	25	9	16	25
Assistants to Supervising Principals and Associate Teachers,		16	16		16	16
Principals who devote half or more than half their time to teaching,		6	6		6	6
Regular teachers in charge of room,		391	391	1	387	388
Teachers of ungraded schools,		3	3		3	3
Teachers of open-air schools,		4	4		4	4
Teachers of special rooms,		13	13		13	13
Teachers of special subjects on full time in one building,	17	34	51	19	34	53
Teachers of special subjects on part time in one building,		1	1			
Teachers of special subjects on full time who do not spend all their time in one building,		10	10	1	12	13
General substitutes,		5	5		6	6
Kindergarten teachers,		19	19		19	19
Kindergarten assistants,		31	31		27	27
Special						
Director of Psychological Laboratory,	1		1	1		1
Director of High Schools Lunch,		1	1		1	1
Totals,	88	661	749	97	653	750

EVENING SCHOOLS.

(School term, November 18, 1918—April 11, 1919.)

	Men.	Women.	Total.
Principal, High,	1		1
Teachers, High,	11	19	30
Principal, Trades,	1		1
Teachers, Trades,	18	8	26
Principals, Elementary,	2	1	3
Teachers, Elementary,	1	22	23
Principal, Vocational,	1		1
Teachers, Vocational,	6		6
Principal, Hooker Community Center,	1		1
Teachers, etc., Hooker Community Center,	4	6	10
Totals,	46	56	102

HIGH SCHOOL GRADUATES.

(For the school year, September 4, 1918—June 27, 1919.)

	TOTALS.			COURSES.											
				College Preparatory.			General.			Commercial.			Scientific.		
	Totals	Boys	Girls	Totals	Boys	Girls	Totals	Boys	Girls	Totals	Boys	Girls	Totals	Boys	Girls
CENTRAL HIGH.															
February, 1919,.....	43	21	22	12	6	6	31	15	16	...	..	..	...	..	..
June, 1919,.....	97	26	71	27	9	18	70	17	53	...	..	..	...	..	..
Total,.....	140	47	93	39	15	24	101	32	69	...	..	..	...	..	..
HIGH SCHOOL OF COMMERCE.															
February, 1919,.....	59	14	45	...	..	..	...	..	..	59	14	45	...	..	..
June, 1919,.....	84	26	58	...	..	..	...	..	..	84	26	58	...	..	..
Total,.....	143	40	103	...	..	..	...	..	..	143	40	103	...	..	..
TECHNICAL HIGH.															
February, 1919,.....	31	21	10	18	10	8	...	..	..	...	..	..	18	11	7
June, 1919,.....	77	43	34	34	26	8	...	..	..	...	..	..	43	17	26
Total,.....	108	64	44	47	36	11	...	..	..	...	..	..	61	28	33
TOTALS FOR ALL HIGH SCHOOLS.															
February, 1919,.....	133	56	77	25	16	9	31	15	16	59	14	45	18	11	7
June, 1919,.....	258	95	163	61	35	26	70	17	53	84	26	58	43	17	26
Total,.....	391	151	240	86	51	35	101	32	69	143	40	103	61	28	33

VOCATIONAL SCHOOL GRADUATES.

(For the school year, September 4, 1918—June 27, 1919.)

		COURSES.		
	Totals.	Cabinet Making.	Machine.	Printing.
June, 1919,.....	4	2	2	..

CENTRAL HIGH SCHOOL.

DISTRIBUTION OF PUPILS BY AGES AND CLASSES, SEPTEMBER 26, 1919.

CLASS.	AGE.	13	14	15	16	17	18	19	20	21	Totals.	
Post Graduate.....	Boys.					1	1	2			4	
	Girls.						2	2		1	5	9
III A.....	Boys.					5	6	5	1		17	
	Girls.					11	7	5			23	40
III B.....	Boys.			2	6	12	14	3			37	
	Girls.			2	14	18	13	1	3		51	88
II A.....	Boys.			9	26	24	7	5	1		72	
	Girls.		1	23	49	28	10	3			114	186
II B.....	Boys.		5	14	13	13	6	1	1	1	54	
	Girls.	1	5	20	29	14	8		1		78	132
I A.....	Boys.	1	11	15	12	9	2	1			51	
	Girls.		16	29	11	6	3				65	116
I B.....	Boys.	6	9	29	8	3	2		1		58	
	Girls.	1	30	37	7	3			1		79	137
	Boys.	7	25	69	65	67	38	17	4	1	293	
	Girls.	2	52	111	110	80	43	11	5	1	415	708
Totals,		9	77	180	175	147	81	28	9	2	708	

AVERAGE AGES.

CLASS.		Average Age.	Oldest.	Youngest.	Average Age of Class.
Post-Graduate...	Boys.	18-2	18-11	17-1	18-8
	Girls.	19	20-9	18-1	
III A.....	Boys.	18-1	19-6	17	17-10
	Girls.	17-8	19-1	16-6	
III B.....	Boys.	17-2	19-1	15-5	17-2
	Girls.	17-2	20-1	15-4	
II A.....	Boys.	16-7	19-6	14-7	16-5
	Girls.	16-3	18-10	14-4	
II B.....	Boys.	16-3	20-6	13-7	16-1
	Girls.	16	20-4	12-11	
I A.....	Boys.	15-7	18-8	13-2	15-4
	Girls.	15-3	18-3	13-9	
I B.....	Boys.	15	20-1	13	14-11
	Girls.	14-10	19-8	13-5	

CENTRAL HIGH SCHOOL—Continued.

DISTRIBUTION OF PUPILS BY CLASSES AND COURSES.

CLASS.		College Preparatory.	General.	Totals.	
Post-Graduate	Boys.	4		4	
	Girls.	3	2	5	9
III A	Boys.	15	2	17	
	Girls.	4	19	23	40
III B	Boys.	34	3	37	
	Girls.	20	31	51	88
II A	Boys.	61	11	72	
	Girls.	76	38	114	186
II B	Boys.	44	10	54	
	Girls.	45	33	78	132
I A	Boys.	43	8	51	
	Girls.	39	26	65	116
I B	Boys.	47	11	58	
	Girls.	53	26	79	137
	Boys.	248	45	293	
	Girls.	240	175	415	708
Totals,		488	220	708	

TECHNICAL HIGH SCHOOL.

DISTRIBUTION OF PUPILS BY AGES AND CLASSES, SEPTEMBER 26, 1919.

CLASS.	AGE.	13	14	15	16	17	18	19	20	21	Totals.	
Post-Graduate	Boys.					5	1		1		7	
	Girls.								1		1	8
III A	Boys.				4	5	4	4			17	
	Girls.				1	1	4	2			8	25
III B	Boys.				10	24	6	9		1	50	
	Girls.				7	12	10	1			30	80
II A	Boys.		2	12	25	25	13	5	1		83	
	Girls.			3	16	13	6	2			40	123
II B	Boys.		10	36	47	33	13	3	2		144	
	Girls.		2	4	9	10	3				28	172
I A	Boys.		24	34	32	10	6	2			108	
	Girls.		4	11	8	1					24	132
I B	Boys.	13	48	48	20	3	1				133	
	Girls.	2	9	6	8	1					26	159
	Boys.	13	84	130	138	105	44	23	4	1	542	
	Girls.	2	15	24	49	38	23	5	1		157	699
Totals,		15	99	154	187	143	67	28	5	1	699	

TECHNICAL HIGH SCHOOL—Continued.

AVERAGE AGES.

CLASS.		Average Age.	Oldest.	Youngest.	Average Age of Class.
Post-Graduate...	Boys.	18	20-1	17-1	19-1
	Girls.	20-3	20-3		
III A.....	Boys.	17-9	19-10	16-10	17-9
	Girls.	18-2	19-4	16-11	
III B.....	Boys.	17-7	21	16-5	17-6
	Girls.	17-6	19-1	16-3	
II A.....	Boys.	17-3	20-4	14-6	17-3
	Girls.	17-3	19-3	15-2	
II B.....	Boys.	16-6	20-7	14-3	16-6
	Girls.	16-7	18-2	14-6	
I A.....	Boys.	15-9	19-3	14-2	15-7
	Girls.	15-6	17	14	
I B.....	Boys.	15-1	18-2	13-2	15-2
	Girls.	15-3	17-3	13-7	

DISTRIBUTION OF PUPILS BY CLASSES AND COURSES.

CLASS.		Scientific.	College Preparatory.	Totals.	
Post-Graduate.....	Boys.	2	5	7	8
	Girls.	1		1	
III A.....	Boys.	4	13	17	25
	Girls.	8		8	
III B.....	Boys.	26	24	50	80
	Girls.	26	4	30	
II A.....	Boys.	54	29	83	123
	Girls.	32	8	40	
II B.....	Boys.	80	64	144	172
	Girls.	26	2	28	
I A.....	Boys.	90	18	108	132
	Girls.	22	2	24	
I B.....	Boys.	78	55	133	159
	Girls.	21	5	26	
	Boys.	334	208	542	699
	Girls.	136	21	157	
Totals,		470	229	699	

HIGH SCHOOL OF COMMERCE.

DISTRIBUTION OF PUPILS BY AGES AND CLASSES, SEPTEMBER 26, 1919.

CLASS.	AGE.	13	14	15	16	17	18	19	20	21	Over 21	Totals.	
Post-Graduate.....	Boys.					2	1					3	
	Girls.					1	3	3	2	1	4	14	17
III A.....	Boys.					2	7	3	5	2		19	
	Girls.				2	4	10	13	1	1		31	50
III B.....	Boys.				1	9	9	4	1	1		25	
	Girls.				14	41	43	15	8	7	4	127	152
II A.....	Boys.			2	11	11	7	3			2	36	
	Girls.			19	51	50	15	4				139	175
II B.....	Boys.			4	9	10	8	2			1	34	
	Girls.		9	37	50	37	5	2		1		141	175
I A.....	Boys.		2	12	14	7	4					39	
	Girls.		12	38	38	15	5					108	147
I B.....	Boys.		5	20	12	6						43	
	Girls.	7	43	74	31	14	6	1	1			177	220
	Boys.		7	38	47	47	36	12	6	3	3	199	
	Girls.	7	64	168	186	162	87	38	7	10	8	737	936
Totals,		7	71	206	233	209	123	50	13	13	11	936	

AVERAGE AGES.

CLASS.		Average Age.	Oldest.	Youngest.	Average Age of Class.
Post-Graduate...	Boys.	17-4	18-5	16-11	
	Girls.	22-2	39-3	17-3	21-4
III A.....	Boys.	18-11	20-7	17	
	Girls.	18-4	20-9	16-5	18-6
III B.....	Boys.	17-11	20-8	15-11	
	Girls.	18	24-6	15-11	18
II A.....	Boys.	17-3	22	15-2	
	Girls.	16-6	19	14-8	16-8
II B.....	Boys.	17	21-8	14-7	
	Girls.	16	20-11	13-11	16-3
I A.....	Boys.	16	18-1	14-8	
	Girls.	15-8	18-2	13-10	15-9
I B.....	Boys.	15-5	17-4	13-10	
	Girls.	15-2	19-7	12-10	15-3

AVERAGE AGE IN EACH GRADE, SEPTEMBER 26, 1919.

GRADES.	IB.	IA.	IIB.	IIA.	IIIB.	IIIA.	IVB.	IVA.	VB.	VA.	VIB.	VIA.	Junior High School.					
													IB.	IA.	IIB.	IIA.	IIIB.	IIIA.
H. S. Commerce,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	14-4	14-8
Acushnet Avenue,	5-11	6-8	7-3	8-0	8-6	9-5	9-7	9-7	10-8	...	...	...	...	...	...	...	...	...
Alden Street,	5-8	6-5	7-1	8-1	8-6	...	8-9	9-4	...	...	...	...	...	...	...	...	...	...
Armory Street,	5-8	6-7	6-11	7-5	7-11	8-6	9-1	9-10	9-11	10-5	11-4	11-8	12-1	...	...	...	...	...
Barrows,	...	...	...	...	...	...	9-4	10-4	10-6	11-4	11-9	11-8	12-7	...	...	...	...	...
Boston Road,	5-10	6-4	7-2	...	8-4	9-1	10-2	9-11	11-0	11-7	11-8	...	...	...	...	...	...	...
Brightwood,	5-11	6-8	7-0	7-5	7-11	9-1	9-4	10-0	10-1	11-0	11-7	12-4	...	...	...	...	...	...
Buckingham,	...	...	...	...	...	...	...	...	10-5	11-0	11-4	11-7	12-0	12-7	12-5	13-10	14-2	14-5
Carew Street,	6-0	6-10	7-2	7-11	8-1	8-10	9-1	9-11	10-5	11-1	11-7	12-0	...	...	...	...	...	...
Central Street,	5-8	6-2	7-1	7-8	7-9	8-4	9-3	9-7	10-2	10-4	11-1	12-1	12-4	12-6	13-1	13-6	14-2	...
Charles Street,	5-9	6-2	6-9	8-0	8-7	9-2	...	...	...	...	...	...	...	...	...	...	...	...
Chestnut Street,	...	...	...	...	...	...	...	...	...	...	11-2	11-7	12-6	12-6	13-2	13-9	14-0	14-6
Dry Bridge,	5-10	7-4	7-4	8-0	8-8	9-8	9-9	...	...	...	...	...	...	...	...	...	...	...
Eastern Avenue,	5-8	6-7	7-2	8-0	8-8	8-1	9-9	10-2	10-8	10-11	...	...	...	...	...	...	...	...
East Main Street,	6-1	6-9	7-0	8-5	8-7	10-0	11-1	11-0	...	...	...	...	...	...	...	...	...	...
East Union Street,	5-10	6-8	7-2	7-9	8-10	9-1	9-6	10-1	...	...	...	...	...	...	...	...	...	...
Five Mile Pond,	6-1	6-3	7-3	...	7-10	...	10-11	12-4	10-5	...	...	...	...	...	...	...	...	...
Forest Park,	...	...	...	...	...	...	...	...	...	...	...	...	12-1	12-7	13-0	13-7	13-11	14-7
Glenwood,	5-1	6-3	6-10	...	7-6	8-0	9-10	...	...	...	...	...	...	...	...	...	...	...
Homer Street,	5-11	6-6	7-1	7-6	7-11	8-7	9-2	9-11	10-1	...	...	...	...	...	...	...	...	...
Hooker,	6-2	6-0	7-5	8-4	8-8	9-4	10-1	10-3	10-11	11-6	11-8	11-10	...	...	...	...	...	...
Howard Street,	6-0	6-9	7-6	8-1	8-10	8-10	9-11	10-3	11-1	11-2	12-1	12-3	12-7	13-4	...	...	...	...
Jefferson Avenue,	5-7	6-2	6-6	7-3	8-0	8-8	9-3	9-7	10-1	10-5	...	...	...	...	...	...	...	...
Kensington Avenue,	5-6	6-2	6-9	7-3	7-9	8-5	8-10	9-7	9-9	10-5	11-0	11-10	...	...	...	...	...	...
Liberty,	5-6	6-4	7-0	7-9	8-3	9-0	9-1	10-5	10-1	10-8	...	...	...	...	...	...	...	...
Lincoln,	5-9	6-8	7-0	7-7	7-11	8-8	9-3	9-10	10-3	10-11	11-6	11-9	...	...	...	...	...	...
Myrtle Street,	5-11	6-5	7-1	7-8	11-1	9-1	9-9	10-7	11-2	11-8	11-7	12-2	12-6	12-11	13-3	13-9	14-3	14-2
Rushville,	5-7	6-4	6-9	8-8	8-0	8-3	9-3	10-1	...	...	...	...	...	...	...	...	...	...
School Street,	5-8	6-2	6-11	7-5	7-10	8-0	8-10	9-9	10-3	...	11-0	11-5	...	...	...	...	...	...
Sixteen Acres,	6-0	7-0	...	9-8	...	7-0	10-6	...	11-6	9-4	12-0	13-5	10-8	...	12-8	...	...	...
State Street,	...	...	...	...	...	...	...	...	...	...	...	...	12-8	12-11	13-3	13-9	14-2	15-1
Strickland,	5-10	6-9	7-1	7-6	8-2	9-2	...	...	...	...	...	...	...	...	...	...	...	...
Sumner Avenue,	5-5	6-2	6-10	7-6	7-9	8-5	9-1	9-2	9-10	10-0	10-9	11-4	...	...	...	...	...	...
Tapley,	5-9	6-6	6-10	7-8	7-10	8-6	8-10	9-5	9-11	10-10	10-10	12-0	...	...	...	...	...	...
Washington,	5-9	6-9	6-9	7-7	8-3	8-6	8-11	9-8	10-0	10-7	11-3	11-2	...	...	...	...	...	...
White Street,	5-10	6-4	6-11	7-7	8-1	9-3	9-0	9-6	10-0	10-8	...	11-8	...	...	...	...	...	...
William Street,	5-10	6-8	7-2	7-7	9-2	9-7	...	...	...	...	...	...	...	...	...	...	...	...
Worthington Street,	5-8	6-10	7-4	8-2	8-10	9-4	9-5	10-6	10-6	11-2	12-1	12-3	...	...	...	...	...	...
Average,	5-9	6-6	7-0	7-9	8-3	8-6	9-5	10-0	10-4	10-10	11-5	11-10	12-2	12-9	12-8	13-8	14-1	14-6

IN

Post-Grad.
15
22
13
28
26
27
18
26
16
16
16
38
35
37
25
21
25
39
32
64

Post-Grad.
68
40
34

AVERAGE AGE IN EACH GRADE, SEPTEMBER 26, 1919.

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	JUNIOR HIGH SCHOOL.

TABLE SHOWING THE GRADUAL DROPPING OUT OF PUPILS IN THE VARIOUS GRADES.

NUMBER OF PUPILS IN EACH GRADE.

	I.	II.	III.	IV.	V.	VI.	VII.	VIII.	IX.	Freshman.	Sophomore.	Junior.	Senior.	Post-Grad.
January, 1891,	1234	766	681	577	511	408	295	260	221					
January, 1892,	1307	893	841	541	522	468	327	245	222					
January, 1893,	1311	1013	918	643	483	477	350	236	230					
January, 1894,	1434	990	996	659	584	505	342	238	248					
September, 1894,	1618	936	1030	795	640	530	350	266	250	174	154	69	63	
September, 1895,	1539	1053	1035	794	724	513	445	277	263	177	126	96	66	
September, 1896,	1723	1020	1180	817	785	621	460	283	258	204	118	86	104	
September, 1897,	1731	1134	1211	980	789	754	474	381	274	206	159	93	88	15
September, 1898,	1775	1145	1287	965	875	657	635	382	299	227	159	123	80	22
September, 1899,	1789	1174	1243	1029	952	786	559	496	380	243	174	130	114	18
September, 1900,	1717	1068	1294	1107	904	884	621	463	380	293	206	142	83	28
September, 1901,	1717	1265	1228	1152	1024	892	759	548	378	298	212	68	104	26
September, 1902,	1685	1297	1276	1088	1135	903	768	655	416	316	214	179	124	27
September, 1903,	1773	1319	1130	1341	1072	986	799	633	464	390	260	172	132	18
September, 1904,	1610	1314	1265	1260	1025	984	912	639	478	433	335	207	121	26
September, 1905,	1663	1293	1271	1266	1140	977	881	661	560	350	248	229	132	16
September, 1906,	1484	1375	1267	1249	1151	1025	941	712	514	509	338	236	185	16
September, 1907,	1565	1348	1283	1221	1203	1059	970	792	593	464	353	272	176	16
September, 1908,	1679	1515	1225	1339	1134	1164	974	914	650	584	363	292	192	38
September, 1909,	1850	1395	1352	1264	1176	1122	995	924	741	638	409	299	226	35
September, 1910,	1774	1404	1402	1303	1200	1148	1052	863	761	694	455	338	181	37
September, 1911,	1731	1543	1373	1347	1300	1076	1058	926	716	729	492	366	226	25
September, 1912,	1968	1397	1465	1311	1352	1193	1035	949	808	696	536	405	238	21
September, 1913,	2218	1677	1481	1423	1347	1345	1162	898	690	787	547	450	277	25
September, 1914,	2305	1789	1593	1461	1367	1350	1327	1046	899	932	631	457	316	39
September, 1915,	2137	1872	1661	1513	1354	1407	1179	1081	1037	930	774	529	348	32
September, 1916,	2238	1865	1809	1709	1477	1453	1211	976	926	936	723	582	356	64

	Junior High.										Senior High.			
	I.	II.	III.	IV.	V.	VI.	I.	II.	III.	(a) (b)	I.	II.	III.	Post-Grad.
September, 1917,	2491	1963	1858	1857	1731	1488	1420	1196	1051	394 362	728	559	432	68
September, 1918,	2494	2079	1731	1892	1792	1724	1461	1216	1111		1255	523	383	46
September, 1919,	2640	2059	1772	1680	1743	1718	1616	1265	1102		911	963	435	34

(a) Junior High School Class in High School of Commerce.
(b) Advanced Freshmen.

THE SENIOR HIGH SCHOOLS.

The senior high schools are not managed as entirely separate and unrelated institutions. They are so conveniently grouped that interchange of students is easy and economical. Pupils choose courses, not schools. On promotion from the junior high school a pupil decides, with the advice and approval of his parents, what course among those offered in the senior high schools most fully meets his needs. He is then assigned for enrollment to that school in which his entire course, or the greater part of his course, is carried on. To secure certain portions of his work he may need to report for one or more periods each week at a recitation room, laboratory, or gymnasium in one of the other schools, but his assignment for enrollment in a school is decided on the basis of the predominant characteristics of the course which he chooses.

CENTRAL HIGH SCHOOL.

First high school in Springfield; organized, 1841.

Central High School, organized, 1849.

Present building occupied, 1898.

Alumni Association organized, 1854.

Officers of the Alumni Association: Executive Committee: President, Frank Hodskins; vice-president, Mrs. George Pirnie; secretary, W. Meredith Wharfield; treasurer, Philip Beebe; Mrs. Edward H. Wilkinson, Mrs. Constance Fowler Leyden, Dwight Winter, Mrs. Kingman Brewster.

TECHNICAL HIGH SCHOOL.

Manual training course opened to high school pupils, 1886.

Organized as Mechanics Arts High School, 1898.

Present name adopted, 1904.

Housed in present building and courses in household technology offered for girls, 1906.

Alumni Association organized, 1903.

Officers of the Alumni Association: President, Fred L. Hunn; vice-president, Mrs. Victor Wesson; secretary, Miss Elizabeth Gammons; treasurer, J. Waldo Russell; Directors, Thomas L. Cowles, George Coole, Burton A. Adams.

HIGH SCHOOL OF COMMERCE.

Organized as a department in Central High School, 1898.

Transferred to Technical High School, 1906.

Organized as High School of Commerce and transferred to Central High School Building, with sessions in the afternoon, 1910.

New building occupied, September, 1915.

Alumni Association organized, February 23, 1917.

Officers of the Alumni Association: President, John W. Colton; first vice-president, John W. Wood; second vice-president, Miss Margaret F. Ganley; secretary-treasurer, Mrs. Hazel Gibbins Miller; executive committee, John W. Colton, Mrs. Agnes Pope Flannery, Mrs. Hazel Gibbins Miller, Raymond B. Shattuck, Lloyd Galbraith, Miss Sara U. Freeman, and Principal Carlos B. Ellis.

TERMS OF ADMISSION TO ALL SENIOR HIGH SCHOOLS.

Pupils are admitted to the senior high schools twice a year. All pupils of the junior high schools who are recommended by the principals of these schools are admitted without examination.

Non-residents are admitted upon passing the required examination and paying a tuition of $150 per year in advance. A special pamphlet containing the courses of study and all other necessary information in regard to these schools is issued separately, and may be obtained by applying to the Superintendent of Schools.

EVENING SCHOOL OF TRADES.

Organized, 1898.

Conducted in Technical High School building, beginning 1906.

TERMS OF ADMISSION.

Tuition in all the classes is free to all persons over fourteen years of age who are residents of Springfield, but a fee of $5 for materials and other incidental expenses is charged each member of the classes in machine shop practice, and in pattern-making; in plumbing this incidental fee is $8, and in the laboratory work in electricity it is $4. Non-residents are charged a tuition fee for the season of twenty-four weeks as follows: For mechanical drawing, for mathematics, and for electricity, $15; for all

other classes, $20. Non-residents are also charged the incidental fees. Members are required to be regular in attendance. Persons wishing to join classes must give satisfactory references as to character and show evidence of ability to do the work required. Certificates of proficiency are awarded in each course to those who complete that course satisfactorily. The school opens the second week in October and is in operation 24 weeks, closing Thursday and Friday evenings of Thanksgiving week and during the vacation of the Christmas holiday season. The school hours are from 7.15 P.M. to 9.15 P.M.

Tuition in all the evening art classes and in the practical classes in domestic science, sewing, and home decoration is free to all persons over fourteen years of age who are residents of Springfield, but a fee of $2.50 for materials and other incidental expenses is charged each member of the classes in design and crafts and domestic science; in the classes in sewing and dressmaking this incidental fee is $2. No incidental fee is charged for the classes in free-hand and model drawing. In addition to these incidental fees non-residents are charged a tuition fee of $15 for the season of twenty-four weeks.

VOCATIONAL SCHOOL.

Organized in Technical High School building, 1908.

In July, 1911, State approval was secured with reimbursement of one half the cost of maintenance and the school was transferred to rented quarters at 36 Taylor street.

Transferred to Pynchon Street School, April, 1914.

TERMS OF ADMISSION.

This school is designed for boys over fourteen years of age, enrolled in the junior high grades.

Tuition for non-residents at this school is $15 per month, payable in advance.

LIST OF TEXT BOOKS

AUTHORIZED FOR USE IN THE PUBLIC SCHOOLS.

ELEMENTARY SCHOOLS.

READING.

GENERAL LITERATURE.

AUTHOR.	TITLE.	GRADE.
Æsop	Fables (Stickney)	IV
Andersen	Fairy Tales	V
Andrews	Ten Boys on the Road from Long Ago	VI
Baldwin	Fairy Stories and Fables	III
Baldwin	Fifty Famous Stories	III
Baldwin	Old Greek Stories	IV
Beckwith	In Mythland, Volume I	II
Beckwith	In Mythland, Volume II	III
Bellamy	Wonder Children	IV
Bigham	Merry Animal Tales	III
Blaisdell	Boy Blue and his Friends	II
Blaisdell	Child Life Reader, Book I	I
Blaisdell	Child Life Reader, Book II	II
Blaisdell	Child Life Reader, Book III	III
Blaisdell	Pretty Polly Flinders	II
Bryce	Child-Lore Dramatic Reader	II
Burgess	Old Mother West Wind	III
Carroll	Alice's Adventures in Wonderland	V
Carroll & Brooks	Fifth Reader	V
Chambers	Hide and Seek in Forest Land	III & IV
Cook	Story of Ulysses	V
Cyr	Primer	I
Defoe	Robinson Crusoe (Lambert)	VI
Edson-Laing	Reader, Book I	I
Edson-Laing	Reader, Book II	II
Free & Treadwell	The Primer	I
Ghosh	Wonders of the Jungle	IV
Hawthorne	Wonder Book	VI
Holbrook	Hiawatha Primer	II
Howe	Third Reader	III
Jones	Third Reader	III
Kingsley	Water Babies	V
London	Call of the Wild	VI
Longfellow	Hiawatha	VI
Mace	Lincoln, the Man of the People	VI
Mace	Washington, a Virginia Cavalier	VI
Matthews	Poems of American Patriotism	VI
Morcomb	Red Feather	II
Noyes & Guild	Sunshine Primer	I
Osgood	Folklore Primer	I
Osgood	Sunbonnet Babies Primer	I
Perkins	The Dutch Twins	III
Perkins	The Dutch Twins Primer	I & II
Powers & Balliet	Reader, Book I	I
Powers & Balliet	Reader, Book II	II
Powers & Balliet	Reader, Book III	III

AUTHOR.	TITLE.	GRADE.
Powers & Balliet	Reader, Book IV	IV
Powers & Balliet	Reader, Book V	V & VI
Pyle	Adventures of Robin Hood	VI
Rice & Ketchum	Our Story Reader	I
Serl	Work-a-day Doings	I
Serl	Work-a-day Doings on the Farm	I
Seton	Wild Animal Ways	VI
Smythe	Reynard the Fox	II
Stevenson	Children's Classics in Dramatic Form	IV
Stockton	Fanciful Tales	V
Swift	Gulliver's Travels	VI
Tappan	The Farmer and his Friends	VI
Thompson	For Childhood Days	I
Van Dyke	The Van Dyke Book (Stories and Peoms)	VI
Werthner	How Man Makes Markets	VI
Wiggin	Polly Oliver's Problem	VI
Wiltse	Folklore Stories and Proverbs	II
Wyss	Swiss Family Robinson (Stickney)	VI
GEOGRAPHICAL.		
Andrews	Each and All	V
Andrews	Seven Little Sisters	IV
Carpenter	Geographical Reader, North America	VI
Carroll	Around the World, Book 1	II
Carroll	Around the World, Book 2	III
Carroll	Around the World, Book 3	IV
Humphrey	Little Folks of Other Lands	II
Kirby	Aunt Martha's Corner Cupboard	IV
Muir	Stickeen	V
Schwatka	Children of the Cold	V
Shaw	Big People and Little People of Other Lands	III
HISTORICAL.		
Eggleston	Stories of Great Americans	IV
Ellson & Macmullan	Story of Our Country	IV
Pratt	Legends of the Red Children	VI
Smythe	Old Time Stories	II
Tanner	Legends from the Red Man's Forest	V
ELEMENTARY SCIENCE.		
Cooke	Nature Myths	III
Long	Ways of Wood Folk	V
	LANGUAGE.	
Chancellor	Graded City Speller, Fifth Year	V
Chancellor	Graded City Speller, Sixth Year	VI
	ARITHMETIC.	
Hoyt & Peet	Everyday Arithmetic, Book I	III & IV
Hoyt & Peet	Everyday Arithmetic, Book II	V & VI
Nichols	New Graded Lessons in Arith., Book I	II
Nichols	New Graded Lessons in Arith., Book II	III
Nichols	New Graded Lessons in Arith., Book III	IV
Nichols	New Graded Lessons in Arith., Book IV	V
Nichols	New Graded Lessons in Arith., Book V	VI

GEOGRAPHY.

AUTHOR.	TITLE.	GRADE.
Tarr & McMurry	New Geography, First Book, Part I	IV
Tarr & McMurry	New Geography, First Book, Part II	V
Tarr & McMurry	New Geography, Second Book, Part I	VI

HISTORY.

Gordy	American Leaders and Heroes	V
Gordy	American Beginnings in Europe	VI

PHYSIOLOGY.

O'Shea & Kellogg	Health Habits	VI

MUSIC.

Aitken	Two Part Exercises	IV
Congdon	Music Primer	III
Dann	First Year Music	I
Dann	Second Year Music	II
Dann	Third Year Music	III
Dann	Fourth Year Music	IV
Silver, Burdett Co.	Progressive Music Reader, Book I	I & II
Silver, Burdett Co.	Progressive Music Reader, Book II	III & IV
Zuchtman	New American Music Reader, Book II	III & IV
Zuchtman	New American Music Reader, Book III	V & VI

PENMANSHIP.

Houston	Writing Lessons	I-IV

DICTIONARY.

Webster	Shorter School Dictionary	IV-VI

JUNIOR HIGH SCHOOLS.

ENGLISH.

Aldrich	Story of a Bad Boy	I
de Amicis	The Heart of a Boy	I
Antin	At School in the Promised Land	II
Arnold	Sohrab and Rustum / Ancient Mariner	III
Baker	Children's Third Book of Poetry	I
Bemis, Holt & Smith	Patriotic Reader	II
Browning	Cavalier Tunes	III
Bryant	Iliad	III
Bryant	Odyssey	III
Carpenter	Geographical Reader, Europe	I
Carpenter	Geographical Reader, Asia	I
Clemens	Travels in History	I
Clemens	Travels at Home	I
Coe	Heroes of Everyday Life	I
Cooper	The Spy	I
Dickens	Christmas Carol, etc.	I
Dickens	Tale of Two Cities	III
Emerson & Bender	English Spoken and Written, Book III	II
Grenfell	Adrift on an Ice Pan	I
Hale	Man Without a Country	II

AUTHOR.	TITLE.	JUNIOR HIGH.
Hawthorne	Grandfather's Chair	I
Hawthorne	Tanglewood Tales	I
Hayward	Money, What It is and How to Use It	II
Homer	Odyssey	III
Howells	Boy Life	I
Hughes	Tom Brown's School Days	III
Kipling	Captains Courageous	I
Kipling	Kipling Stories and Poems Every Child Should Know	I
Longfellow	Tales of a Wayside Inn	II
Longfellow	Selections	I
Martineau	Peasant and Prince	II
McMurry	William Tell Dramatic Reader	I
Repplier	A Book of Famous Verse	II
Scott	Ivanhoe	II
Scott	Kenilworth	II
Scott	Lady of the Lake	III
Scott	Lay of the Last Minstrel	II
Scott	Marmion	II
Scott	The Talisman	II
Scribner's	Stories from American Authors	II
Shakespeare	Julius Cæsar	II
Shakespeare	The Merchant of Venice	III
Shakespeare	Midsummer Night's Dream	III
Spaulding, Brice & Buehler	Aldine Third Language Reader	I & II
Stevenson	Kidnapped	II
Stevenson	Treasure Island	I
Sykes	English Composition for Grammar Grades	III
Tappan	Diggers in the Earth	I
Tappan	Makers of Many Things	I
Tappan	Travelers and Traveling	II
Washington	Up from Slavery	II
Webster	English for Business	III
Webster	Shorter School Dictionary	I-III
Whittier	Snowbound	I
Wilson & Winship	The Merrill Speller, Book II	I-III
	MATHEMATICS.	
Atwood	Exercises in Algebra	III
Hoyt & Peet	Everyday Arithmetic, Book III	I-III
Meservey	Bookkeeping	II
Nichols	New Graded Lessons in Arithmetic, Book VI	I
Spencer	Inventional Geometry	II
VanTuyl	Essentials of Business Arithmetic	III
Wells & Hart	First Year Algebra	II
Wells & Hart	New High School Algebra	III
	GEOGRAPHY.	
Dryer	Elementary Economic Geography	II
Morton	Advanced Geography	I
	PHYSIOLOGY.	
O'Shea & Kellogg	Making the Most of Life	I
	HISTORY.	
Fiske	War of Independence	I
Gibson	Chart History of the Civil War	I

AUTHOR.	TITLE.	JUNIOR HIGH.
Gordy	History of the United States	I & II
Scudder	George Washington	I
Tappan	England's Story	I
	FRENCH.	
Chapuset & Daniels	Mes Premiers Pas en Français	II & III
Foa	Le Petit Robinson	III
Gay	Chansons, Poésies et Jeux Français	III
Meras	Le Premier Livre	III
	GERMAN.	
Bagster-Collins	First Book in German	II
Fick	Dies und Das	II & III
Gerstacher	Germelshausen	III
Gronow	Für Kleine Leute	II
Müller & Wenckebach	Glück Auf	II & III
Walter & Krause	Beginners' German	II
	LATIN.	
Smith	Latin Lessons	II & III
Smith	Supplement to Smith's Latin Lessons	II & III
	MUSIC.	
Armitage	Laurel Junior Songs	
Armitage	Laurel Songs (Student's Edition)	
Armitage	Laurel Unison Book	
Dann	Junior Songs	
Farnsworth	Grammar School Songs	
Giddings & Newton	Junior Song and Chorus Book	
Tomlins	Laurel Music Reader	
Tomlins	Laurel Unison Book for Girls	
Tomlins	Laurel Unison Book for Boys	
Zuchtman	New American Music Reader, Book IV	
	PENMANSHIP.	
Zaner	Writing Manual, No. 144	III
Zaner & Bloser Co.	Zaner Method Writing, Compendium No. 4	I
Zaner & Bloser Co.	Zaner Method Writing, Compendium No. 5	II

SENIOR HIGH SCHOOLS.

CLASSICS.

Text-Books:	
Allen & Greenough	Cæsar
Allen & Greenough	Latin Grammar
Barss	Cornelius Nepos
Burgess & Bonner	Elementary Greek
D'Ooge	Latin Composition
D'Ooge	Select Orations of Cicero
Fairclough & Brown	Æneid
Gleason	Greek Prose Composition
Greenough & Kittredge	Virgil
Hadley & Allen	Greek Grammar
Harper	Latin Dictionary

AUTHOR.	TITLE.
Keep	Homer's Iliad (Books I-VI)
Kelsey	Cæsar, Gallic Wars
Kelsey	Cicero
Kelsey	Ovid
Kelsey	Xenophon's Anabasis
Kirtland	Fabulæ Faciles
Pearson	Essentials of Latin
Smith	Latin Lessons
Supplementary Book:	
Collar	Gate to Cæsar

ENGLISH.

Text-Books:	
Addison	Sir Roger de Coverley Papers
Alshouse & Root	A Brief English Grammar
Ashmun	Modern Prose and Poetry for Secondary Schools
Berdan, Schults and Joyce	Modern Essays
Bouton	Lincoln and Douglas Debate
Brooks	English Composition, Book I, Enlarged
Brooks & Hubbard	Composition Rhetoric
Browning	Shorter Poems
Buehler	Exercises in English
Burke	Speech on Conciliation with America
Burns	Representative Poems with Carlyle's Essay
Canby & Opdycke	Elements of Composition
Carlyle	Essay on Burns
Chew	Practical High School Speller
Clark	A Treasury of War Poetry
Coleridge	Ancient Mariner
Cooper	The Last of the Mohicans
De Quincey	English Mail Coach
Eliot	Silas Marner
Emerson	American Scholar
Emerson	Culture, Books, Power
Esenwein	Children's Stories and How to Tell Them
Foster	Essentials of Exposition and Argument
Fuess	Selected English Letters
Genung & Hanson	Outlines of Composition and Rhetoric
Goldsmith	Vicar of Wakefield
Grenfell	Adrift on an Ice Pan
Halleck	History of American Literature
Halleck & Barbour	Readings from Literature
Hart & Perry	Representative Short Stories
Hitchcock	Enlarged Practice Book in English Composition
Hitchcock	New Practice Book
Hitchcock	Rhetoric and the Study of Literature
Hufford	Selections from the Poetry of Robert Burns
Hughes	Tom Brown's School Days
Husband	America at Work
Kittredge & Arnold	Manual of Composition
Lockwood	The Freshman and his College
Long	American Poems
Long	English Literature
Lowell	Vision of Sir Launfal
Macaulay	Lays of Ancient Rome
Macaulay	Essays on Milton and Addison
Milton	Shorter Poems
Milton	Paradise Lost
Pace	Readings in American Literature
Palmer	Self-Cultivation in English
Parkman	The Oregon Trail

AUTHOR.	TITLE.
Pope	Iliad
Pope	Rape of the Lock
Richards	High Tide (selected poems)
Rittenhouse	Little Book of Modern Verse
Sandwick & Bacon	Word Book
Scott & Denney	Composition-Rhetoric
Simonds	Student's History of English Literature
Stevenson	Kidnapped
Tanner	Essays and Essay Writing
Tennyson	Idylls of the King
Tennyson	The Princess
Thompson	British Verse
Towne	Social Problems
Webster	Bunker Hill Oration
Webster	English for Business
Wiggin	Golden Numbers
Williams	Choice Literature, Book VII
Winchester	Book of English Essays
Woolley	Handbook for Composition
Wordsworth	Shorter Poems

Supplementary Books:

Aldrich	Story of a Bad Boy
Arnold	Sohrab and Rustum
Blackmore	Lorna Doone
Brewer	Oral English
Browning	Lady Geraldine, Selected Poems
Bryant	Selections
Bryce	Selected Essays
Byron	Childe Harold
Carlyle	Heroes and Hero Worship
Chaucer	Prologue to Canterbury Tales
De Quincey	Joan of Arc
Dickens	A Tale of Two Cities
Eliot	Education for Efficiency
Ewing	Jackanapes
Foerster & Pierson	American Ideals
Franklin	Autobiography
Gardiner, Kittredge & Arnold	Composition and Rhetoric
Gaskell	Cranford
Gayley	Classic Myths
Gayley & Flaherty	Poetry of the People
George	From Chaucer to Arnold
Goldsmith	She Stoops to Conquer
Goldsmith	Deserted Village
Guerber	Myths of Greece and Rome
Hale	Man Without a Country
Harte	Selected Short Stories
Hawthorne	Twice Told Tales
Hawthorne	House of Seven Gables
Holmes	Selections from Breakfast Table Series
Hotchkiss & Drew	Business English
Houghton Mifflin Co.	Children's Hour
Howells	Rise of Silas Lapham
Irving	Life of Oliver Goldsmith
Irving	Alhambra
Irving	Selections from Sketch Book
Jewett	Night before Thanksgiving
Keller	The Story of My Life
Lamb	Essays from Elia
Lamb	Tales of Shakespeare
Laselle	Short Stories of the New America

AUTHOR.	TITLE.
Lockwood & Emerson	Composition and Rhetoric
Long	History of English Literature
Macaulay	Essay on Warren Hastings
Macaulay	Essays on Addison and Johnson
Macaulay	On Life of Samuel Johnson
Mallory	King Arthur Stories
Merrill, C. E., & Co.	Selected Short Stories
Nettleton	Old Testament Stories
Palgrave	Golden Treasury
Poe	Poems and Tales
Ruskin	Selected Essays and Letters
Ruskin	Sesame and Lilies
Schurz	Abraham Lincoln
Scott	Quentin Durward
Scott, Foresman & Co.	Types of the Short Story
Shakespeare	A Midsummer Night's Dream (Rolfe)
Shakespeare	As You Like It (Longmann)
Shakespeare	Hamlet (Rolfe) (New Hudson)
Shakespeare	Julius Cæsar (Rolfe) (Edited by Thurber)
Shakespeare	King John (Rolfe)
Shakespeare	King Henry IV (Part I) (Rolfe)
Shakespeare	King Henry IV (Part II) (Rolfe)
Shakespeare	King Henry V (Rolfe)
Shakespeare	King Lear (Rolfe)
Shakespeare	King Richard II (Rolfe)
Shakespeare	King Richard III (Rolfe)
Shakespeare	Macbeth (Rolfe)
Shakespeare	Merchant of Venice (Rolfe)
Shakespeare	Othello (Rolfe)
Shakespeare	Romeo and Juliet
Shakespeare	Tempest (Rolfe)
Shakespeare	Twelfth Night (Rolfe) (Edited by Kellogg)
Shelley & Keats	Selections
Sheridan	Rivals
Sherman	Short Stories
Simonds	American Literature (Student's History of)
Stedman	American Anthology
Stevenson	Travels with a Donkey and Inland Voyage
Stevenson	Treasure Island
Tennyson	Shorter Poems
Thackeray	The Newcomes
Washington	Farewell Address
Webster	Secondary Dictionary
Whittier	Snowbound, Among the Hills, Songs of Labor

FRENCH.

Text-Books:

About	Le Roi des Montagnes
Bacon	New French Course
Bacon	Une Semaine à Paris
Bazin	Contes Choisis
Bazin	Le Blé qui Lève
Bierman & Frank	Conversational French Reader
Bounet	French Syntax and Composition
Bowen, ed.	Modern French Lyrics
Bruce	Dictées Françaises
Bruce	Grammaire Française
Bruno	Le Tour de la France
Cameron	French Prose Composition
Cherbulier	Le Comte Kostia
Comfort	French Composition
Constanseau	French Dictionary

AUTHOR.	TITLE.
Corneille	Le Cid
Daudet	La Belle Nivernaise
Daudet	Le Petit Chose
Desnoyers	Les Mésaventures de Jean-Paul Choppart
Dike	Scientific French Reader
Dumas	La Tulipe Noire
Dumas	Monte Cristo
Enault	Le Chien du Capitaine
Feuillet	Le Roman d'un Jeune Homme Pauvre
Fos	Le Petit Robinson de Paris
François	Advanced French Composition
François	Alternate Exercises for Introductory French Prose Composition
François	Beginner's French
François	Introductory French Prose Composition
François & Giroud	Simple French
Fraser	Scenes of Familiar Life
Fraser & Squair	Shorter French Course
Goodell	L'Enfant Espion
Grandgent	Prose Composition, Part V, based on La Pipe de Jean Bart
Guerber	Contes et Légendes
Guerber	Prisoners of the Temple
Halevy	L'Abbé Constantin
Heath	French-English and English-French Dictionary
Hennequin	Lessons in Idiomatic French
Hugo	La Chute
Hugo	Les Misérables
Hugo	Quatre-vingt-treize
Josselyn & Talbot	Elementary Reader of French History
La Bedollière	La Mère Michel et Son Chat
Labiche & Martin	La Poudre aux Yeux
Labiche & Martin	Le Voyage de M. Perrichon
La Fontaine	Fables
Lamartine	Jeanne d'Arc
Larousse	Dictionaire
Larousse	Grammaire Complète
Lavisse	Histoire de France
Lemaitre	Contes Estraits de Myrrha
Loti	Pêcheur d'Islande
Mairet	La Tâche du Petit Pierre
Malot	Sans Famille
Marique & Gilson	French Sight Reading
Méras	Le Premier Livre
Mérimée	Colomba
Molière	L'Avare
Molière	Le Bourgeois Gentilhomme
de Monvert	La Belle France
de Musset	L'Histoire d'un Merle Blanc
Pattoi	Causeries en France
Rogers	French Sight Reading
Sand	La Mare au Diable
Sandeau	Mlle. de la Seiglière
Sandeau	Sacs et Parchemins
Sarcey	Le Siège de Paris
Snow & Lebon	Easy French
Souvestre	L'Eclusiér
Souvestre	Un Philosophe sous les Toits
Spiers & Surenne	French Dictionary
Super	French Reader
Talbot	French Composition
Theuriet	L'Abbé Daniel
Tuckerman	Simplicité

AUTHOR.	TITLE.
Verne	Tour du Monde en Quatre-vingts Jours
Worman	Grammaire Française
Supplementary Books:	
Ballard	Short Stories for Oral French
Balzac	Le Curé de Tours
Beaumarchais	Le Barbier de Séville
Bercy	Le Français Pratique
Bruce	French Selections for Sight Translation
Coppée	Le Luthier de Crémone et Le Trésor
Dumas	Les Trois Mousquetaires
Duval	Petite Histoire de la Littérature Française
Erckmann-Chatrian	Le Conscrit de 1813
Fortier	Histoire de France
Fortier	Sept Grands Auteurs
Foncin	Le Pays de France
Kuhn	French Readings for Beginners
Lavisse	La Deuxième Année d'Histoire de France
Legouvé & Labiche	La Cigale chez les Fourmis
Mairet	L'Enfant de la Lune
de Musset	Trois Comédies
de Ruy, Rachel	Rondes Enfantines
Sand	La Famille de Germandre
Super	Anécdotes Faciles
Syms	Easy French Reader
Syms	Selected Letters of Madame de Sévigné
Syms	Le Chien de Brisquet
Talbot	Le Français et Sa Patrie
Topffer	La Bibliothèque de Mon Oncle
Zola	La Débâcle

GERMAN.

Text-Books:	
Arnold	Ein Regentag auf dem Lande
Arnold	Frits auf Ferien
Bacon	German Composition
Bacon	German Grammar for Beginners
Bagster-Collins	First Year in German
Baumbach	Das Habichtsfräulein
Baumbach	Der Schwiegersohn
Baumbach	Im Zwielicht
Chamisso	Peter Schlemihl
Chiles	Germán Prose Composition
Dippold	Scientific German Reader
Erk	Liederschats
Ernst	Flachsmann als Ersicher
Freytag	Aus dem Staat Freidrichs des Grossen
Freytag	Karl der Grosse
Fulda	Der Talisman
Gerstacker	Germelshausen
Goethe	Dichtung und Wahrheit
Goethe	Hermann und Dorothea
Goethe	Sesenheim
Greenfield	Brief Summary of German Grammar
Guerber	Märchen und Erzählungen
Hatfield	Materials for German Composition, based on Höher als die Kirche
Heath	German Dictionary
Heine	Die Harzreise
Heyse	L'Arrabbiata
von Hillern	Höher als die Kirche
Holswarth	Grüss aus Deutschland

AUTHOR.	TITLE.
Jagemann	German Prose Composition
Jagemann	German Syntax
Kayser & Monteser	A Brief German Course
Kayser & Monteser	Foundations of German
Keller	Kleider machen Leute
Klenze	Deutsche Geschichte
Kohlrausch	Das Jahr 1813
Leander	Traumereien
Lessing	Minna von Barnhelm
Moltke	Die Beiden Freunde
Mondan	German Selections for Sight Translations
Muller & Wenckebach	Glück Auf
Münchausen	Reisen
Otis	Das Lied der Glocke
Pope	German Composition
Riehl	Der Fluch der Schonheit
Schiller	Das Lied der Glocke
Schiller	Der Neffe als Onkel
Schiller	Jungfrau von Orleans
Schiller	Thirty Years' War (Book III)
Schiller	Wilhelm Tell
Stolze	Bunte Geschichten
Seidel	Die Monate
Seidel	Leberecht Hühnchen
Stifter	Das Heidedorf
Storm	Geschichten aus der Tonne
Storm	Immensee
Stroebe und Whitney	Geschichte der Deutschen Literatur
Thomas	German Grammar
Tuckerman	Am Anfang
Vos	Essentials of German
Wells	Drei kleine Lustspiele
Wenckebach, ed.	Die Schönsten Deutschen Lieder
Whitney & Stroebe	Easy German Composition
von Wildenbruch	Das Edle Blut

Supplementary Books:

Auerbach	Brigitta
Bacon	Im Vaterland
Benedix	Nein
Bernhardt	Novelletten Bibliothek
Bernhardt	Stille Wasser
Bierwirth	Words of Frequent Occurrence
Ebner-Eschenbach	Krambambuli
Freytag	Aus dem Jahrhundert des Grossen Krieges
Frommel	Eingeschneit
Gore	German Science Reader
Groller	Inkognito
Heyse	Anfang und Ende
Heyse	Das Mädchen von Treppi
Keller	Bilder aus der Deutschen Literatur
Lessing	Nathan der Weise
Meissner	Aus Meiner Welt
Moser	Der Bibliotekar
Moser	Willkommen in Deutschland
Riehl	Burg Neideck
Spyri	Rosenresli (ed. Boll)
Sudermann	Teja
Zschokke	Der zerbrochene Krug

SPANISH

AUTHOR.	TITLE.
Angell	English-Spanish Dictionary
Coester	A Spanish Grammar
Cool	Spanish Composition
Crawford	Spanish Composition
De Alarcon	El Capitan Veneno
Des Garennes	Introduction a la Lengua Castellana
De Vitis	A Spanish Grammer for Beginners
Dorado	Espana Pintoresca
Fuentes & Francois	A Trip to Latin America
Harrison	Spanish Commercial Reader
Harrison	Intermediate Spanish Reader
Hartsenbusch	Juan de Las Vinas
Hills	Spanish Tales for Beginners
Howland	Zaragueta
Luria	Correspondencia Commercial
McHale	Commercial Spanish
McKay	Spanish, Commercial and Professional
Roessler & Remy	First Spanish Reader
Sparkman	Industrial Spanish
Supple	Spanish Reader of South American History
Valera	El Pajara Verde
Velasques	English-Spanish Dictionary
Wagner	Spanish Grammar

HISTORY.

Text-Books:

Andrews	A History of England
Ashley	American Government
Ashley	Medieval Civilization
Ashley	New Civics
Botsford	A History of Greece
Botsford	A History of Rome
Botsford	History of Ancient World
Breasted	Ancient Times,—A History of the Early World
Bryce	American Commonwealth
Burch & Nearing	Elements of Economics
Channing	Student's History of the United States
Cheyney	History of England
Emerton	Introduction to the Middle Ages
Forman	Advanced American History
Guitteau	Government and Politics in the U. S.
Hazen	Modern European History
McLaughlin	American Nation
McLaughlin & Hart	Encyclopedia of American Government
McMurry	Geography of the Great War
Monro	Middle Ages
Moore	Industrial History of the American People
Muzzey	American History
Myers	Ancient History
Myers	General History
Myers	Greece
Myers	Rome; Its Rise and Fall
Nida	State and Nation
Oman	A History of Greece
Robinson	Medieval and Modern Times
Robinson & Beard	Development of Modern Europe
Robinson & Beard	Outlines of European History, Part II
Robinson & Breasted	Outlines of European History, Part I
Smith	Commerce and Industry
Towne	Social Problems
Webster	Ancient History

AUTHOR.	TITLE.
West	Modern History
West	Modern World
Westerman	Story of the Ancient Nations
Woodburn & Moran	American History and Government
Wrong	History of the British Nation
Supplementary Books:	
Church	Greek Life and Story
Church	Stories from Herodotus
Church	Stories of the Persian Wars
Davis	Readings in Ancient History, Vols. I and II
Fiske	Civil Government in the United States
Goodspeed	History of the Ancient World
Hart	Source Book of American History
James & Sanford	Government in State and Nation
Larned	History of England
Mackenzie	The Nineteenth Century
Montgomery	Leading Facts of French History
Montgomery	Leading Facts in English History
Myers	Mediæval and Modern History
Schurz	Abraham Lincoln
Sheldon	General History
Webster	History of Commerce
Wilson	The State
Witt	Retreat of the Ten Thousand
Wright	Industrial Evolution of the United States
Wrong	History of the British Nation
	Municipal Register of Springfield

MATHEMATICS.

Text-Books:	
Atwood	Exercises in Algebra
Collins	Practical Algebra, First Year Course
Hawkes	Advanced Algebra
Hunn & MacInnes	Logarithmic Tables
Jameson	Elementary Practical Mechanics
McCurdy	Exercise Book in Algebra
Merriman	Strength of Materials
Phillips & Strong	Elements of Trigonometry
Rivenburg	A Review of Algebra
Robbins	Plane Trigonometry
Robbins and Somerville	Exercises in Algebra
Schultze & Sevenoak	Plane Geometry
Stone & Millis	Elementary Algebra
Wells	Algebra for Secondary Schools
Wells	College Algebra
Wells	New Higher Algebra
Wells	Plane Trigonometry with Tables
Wells & Hart	First Year Algebra
Wells & Hart	New High School Algebra
Wentworth	Elements of Algebra
Wentworth	Plane and Solid Geometry
Wentworth & Hill	Logarithmic Tables
Wentworth & Smith	Plane Geometry
Wentworth & Smith	Solid Geometry
Supplementary Books:	
Crawley	Table of Logarithms
Fine	College Algebra
Holton	Shop Mathematics
Longmans	School Mensuration

AUTHOR.	TITLE.
Sheperd	Problems in Strength of Materials
Wentworth	College Algebra
Wentworth	Plane Trigonometry

SCIENCE.

Text-Books:

Adams	First Course in Physics
Allyn	Elementary Applied Chemistry
Atkinson	Lessons in Botany
Bergen & Davis	Laboratory and Field Manual of Botany
Black & Davis	Practical Physics
Brownlee	First Principles of Chemistry
Butler	Household Physics
Carhart & Chute	High School Physics
Colton	Briefer Course in Physiology
Comstock	Astronomy
Dryer	Physical Geography
Elhuff	General Science, First Course
Fairbanks	Physiography
Gager	Fundamentals of Botany
Hessler	First Year Science
Hobbs & Elliott	Gasoline Automobile
Hough & Sedgwick	Elements of Hygiene and Sanitation
Irish	Qualitative Analysis
Jackson	An Elementary Book on Electricity and Magnetism
Kinne & Cooley	Foods and Household Management
Kinne & Cooley	Shelter and Clothing
Miller	Progressive Problems in Physics
Morgan and Lyman	Chemistry
Newell	Descriptive Chemistry
Newell	Experimental Chemistry
Newell	General Chemistry
Norton	Food and Dietetics
Packard	Everyday Physics
Peabody	Studies in Physiology
Remsen	Elements of Chemistry
Remsen	Briefer Course
Sheaffer	Household Accounting
Smith	Elementary Chemistry
Taber	The Business of the Household
Tarr	New Physical Geography

Supplementary Books:

Bailey	Sanitary and Applied Chemistry
Chittenden	Nutrition of Man
Conn	Bacteria, Yeasts, and Molds in the Home
Cotton	Care of Children
Coulter	Plant Relations
Coulter	Plant Structures
Gray	Botany
Hortvet	Elementary Practical Physics
Howell	Text-Book of Physiology
Lusk	Science of Nutrition
Milliken & Gale	First Course in Physics
Olsen	Pure Foods
Richards	Chemistry of Cooking and Cleaning
Sherman	Chemistry of Food and Nutrition
Walters	Physiology and Hygiene

MECHANICAL DRAWING

Text-Books:

AUTHOR.	TITLE.
Anthony & Ashley	Descriptive Geometry
Hoffman	Elementary Machine Design

MUSIC.

Birchard	55 Songs for Community Singing
Birchard	School Song Book
Birchard	Standard Songs No. 7
Dann	School Hymnal
McConathy	The School Song Book
Tomlins	The Laurel Song Book

COMMERCIAL.

Text-Books:

Adams	Commercial Geography
Belding	Commercial Correspondence
Bennett	Bookkeeping and Accounting Exercises, Part I
Bennett	Bookkeeping and Accounting Exercises, Part II
Bullock	Introduction to Study of Economics
Cahill & Ruggeri	Office Practice
Coman	Industrial History of United States
Cutler & Sorrelle	Rational Typewriting
Eldridge	Business Speller
Eldridge	Shorthand Dictation Exercises
Ellis	Practical Bookkeeping
Fritze-Eldridge	Expert Typewriting
Gano	Commercial Law
Gilbert & Brigham	Introduction to Physical Geography
Gregg	Graded Readings
Gregg	Shorthand Manual
Gregg	Speed Studies
Herrick	History of Commerce
Kennard	Department Store Merchandise Manuals
Klein	Elements of Accounting
Pitman	Course in Isaac Pitman Shorthand
Pitman	Progressive Dictator
Pitman	Selections from American Authors
Poates	Complete Atlas of the World
Redway	Commercial Geography
Shaw, A. W., Co.	Personal Efficiency in Business
Smith	Commerce and Industry
Van Tuyl	Complete Business Arithmetic
Van Tuyl	Essentials of Business Arithmetic
Webster	General History of Commerce
Williams & Rogers	Bookkeeping and Business Practice
Zaner & Bloser	Arm Movement Writing Manual No. 144

Supplementary Books:

Babson	Bonds and Stocks
Field	Retail Buying
Green	History of Springfield
Opdycke & Drew	Commercial Letters
McClelland	Office Training and Standards
Norton	Retail Selling
Rowe, H. N., Co.	A Course in Cost Accounting
Shaw, A. W., Co.	How to Talk Business to Win
Smith	Proof Reading and Punctuation
Webster	Little Gem Dictionary

AUTHOR.	TITLE.
Wilson	South America as an Export Field
Wilson & Carpenter	Analysis of Financial Statements

JUNIOR COLLEGE.

CLASSICS

Text-Books:

Allen & Greenough	Latin Grammar
Burgess & Bonner	Elementary Greek
Burton	Selections from Livy
Gleason	Greek Prose Composition
Hadley & Allen	Greek Grammar
Harvard Latin Department	Selections from Latin Poets
Kelsey	Xenophon's Anabasis
Lewis	Elementary Latin Dictionary
Shorey & Laing	Horace

ENGLISH.

Cunliffe, Pyre & Young	Century Readings in English Literature
Hersey & Greenough	English Composition
Lomer & Ashmun	Story and Practice of Writing English
Rice	College and the Future

FRENCH

Corneille	Le Cid
France	Le Crime de Sylvestre Bonnard
Fraser & Squair	French Grammar
Gautier	Jettatura
Hugo	Poems (Schinz edition)
Molière	Le Tartuffe
Musset	Trois Comédies
Racine	Athalie
Schinz	Seventeenth Century French Readings

Supplementary Books:

Corneille	Horace
Corneille	Le Cid
Corneille	Polyeucte
Doumic	Histoire de la Littérature Française
Fortier	Histoire de France
LaFayette	La Princesse de Cleves
Molière	Les Précieuses Ridicules
Racine	Andromaque
Racine	Britannicus

GERMAN.

Text-Books:

Bernstorff	Handbook of German Composition
Boesinger	Zweites Aufsatzbuch
Fulda	Das verlorene Paradise
Goethe	Egmont
Hauff	Lichenstein
Hebble	Agnes Bernauer
Klenze	Deutsche Gedichte

AUTHOR.	TITLE.
Meyer	Der Schuss von der Kanzel
Raabe	Else von der Tanne
Raabe	Eulenpfingsten
Schiller	Maria Stuart
Schiller	Wallenstein
Sudermann	Der Katzensteg
Supplementary Books:	
Boesinger	Mündliche und shcriftliche Uebungen
Goethe	Iphigenie auf Taurus
Heyse	Das Mädchen von Treppi
Keller	Kleider machen Leute
Morgan	Elementary German Syntax
Sudermann	Frau Sorge
von Wildernbruch	Lachendes Land

SPANISH

Text-Books:	
Morrisson	Tres Comedias Modernas
Olmsted & Gordon	Abridged Spanish Grammar
Selgas	La Mariposa Blanca
Umphrey	Spanish Prose Composition
Wilkins & Luria	Lecturas Fáciles

HISTORY.

Text-Books:	
Hasen	Modern European History
Robinson	History of Western Europe
Thorndike	History of Medieval Europe

MATHEMATICS.

Phillips & Strong	Plane Trigonometry
Wells	Plane Trigonometry
Wentworth & Smith	Solid Geometry

SCIENCE.

Milliken & Gale	A First Course in Physics
Waterman	Laboratory Manual in Physics
Supplementary Books:	
Kimball	College Physics

EVENING HIGH SCHOOL.

MATHEMATICS.

Text-Books:	
Ellis	Practical Bookkeeping
Hoyt & Peet	Everyday Arithmetic, Book III
Kester	Accounting, Theory and Practice
Moore & Miner	Concise Business Arithmetic
Nichols	Arithmetical Problems
Schultz	Elements of Algebra
Wells	Higher Algebra
Wentworth & Smith	Plane Geometry
Wentworth & Smith	Trigonometry

SCIENCE.

AUTHOR.	TITLE.
Allen	Elementary Applied Chemistry
Carhart & Chute	First Principles of Physics
Carhart & Chute	High School Physics
Irish	Qualitative Analysis for Secondary Schools
Remsen	Chemistry
Remsen	Laboratory Manual
Williams	Essentials of Chemistry

GERMAN.

Bagster-Collins	First Book in German

FRENCH.

Bacon	Une Semaine à Paris
Ballard	Short Stories for Oral French
Bierman & Frank	Conversational French Reader
Comfort	French Prose Composition
François	Introductory French Prose Composition
Fraser & Squair	Shorter French Course
Grandgent	French Composition
Guerber	Contes et Légendes
Halévy	L'Abbé Constantin
Mérimé	Colomba
Syms	Easy French Reader
Talbot	Le Français et sa Patrie
Tuckerman	Simplicité

SPANISH.

Isaacs	Maria
Legundo	El Lector Americano
Morse	Spanish-American Life
Worman	First Year Spanish

ENGLISH.

Aldrich	Story of a Bad Boy
Chancellor	Standard Short Course
Dickens	Tale of Two Cities
Eldridge	Business Speller
Eliot	Silas Marner
Goldsmith	The Deserted Village
Goldsmith	Plays of Oliver Goldsmith
Hale	Man Without a Country
Hitchcock	New Practice Book
Hotchkiss & Drew	Business English
Irving	Sketch Book
Lockwood & Emerson	Composition and Rhetoric
Longfellow	Evangeline, etc.
Longfellow	Tales of a Wayside Inn
Lowell	Vision of Sir Launfal
Poe	Poems and Tales
Scott	Ivanhoe
Scott	Quentin Durward
Shakespeare	Macbeth
Shakespeare	Merchant of Venice

AUTHOR.	TITLE.
Stevenson	Treasure Island
Sykes	English Composition for Grammar Schools
Tennyson	The Princess
Wallach	Secondary Book in English for Foreigners
Webster	English for Business
Webster	Shorter School Dictionary
Whittier	Snowbound, Tent on the Beach, and Favorite Poems
Williams	Choice Literature
Wood	Practical Grammar and Composition

HISTORY.

Gordy	History of the United States

GEOGRAPHY.

Carpenter	Geographical Reader—North America
Morton	Advanced Geography

COMMERCIAL LAW.

Aughenbaugh	Selling Latin America
Gano	Commercial Law
Guitteau	Government and Politics in the United States

STENOGRAPHY.

Pitman	Progressive Dictator
Pitman	Brief Course in Isaac Pitman Shorthand
Pitman	Shorthand, Rapid Course

ELEMENTARY EVENING SCHOOLS.

Any day school book may be used and, in addition, the following:

Alexander	Spelling Book
Bryce	Folk-lore from Foreign Lands
Chancellor	Standard Short Course for Evening Schools
Cowles	Robinson Crusoe Reader
Field and Coveney	English for New Americans
Mints	New American Citizen
O'Brien	English for Foreigners
Ryan & Prior	How to Learn English
White	Intermediate Arithmetic
Wood	Practical Grammar and Composition

LOCATION OF PUBLIC SCHOOLS

WITH THE AREA OF THEIR LOTS AND THE TERRITORIAL BOUNDARIES OF THE DISTRICTS.

CENTRAL HIGH SCHOOL.—On the south side of State street, between School and Maple streets. Area of lot, 79,874 square feet.

District: The whole city.

HIGH SCHOOL OF COMMERCE.—State street, opposite U. S. Armory. Area of lot, 129,480 square feet.

District: The whole city.

TECHNICAL HIGH SCHOOL.—On the east side of Elliott street. Area of lot, 66,785 square feet.

District: The whole city.

VOCATIONAL SCHOOL.—62 Pynchon street. Area of lot, 14,013 square feet.

District: The whole city.

ACUSHNET AVENUE ELEMENTARY SCHOOL.—On the east side of Main street, corner of Acushnet avenue. Area of lot, 33,680 square feet.

For grades I. to III. this district is bounded on the north by Loring and Central streets (not including them); on the east by the Central street district; on the south by Nos. 49 and 50 on Long Hill street and 1189 on Main street.

For grades IV. and V., the northern boundary of this district is Fremont and Central streets (including them); on the east and south the same as for primary grades.

ALDEN STREET ELEMENTARY SCHOOL.—Alden street, near the junction of Walnut and Hancock streets. Area of lot, 19,765 square feet.

This district extends from the junction of Hancock and Central streets along Hancock to Florence street; along Florence (not including it) to Pine; Pine to Cedar; along Cedar, James, and King streets to Nelson

street; along Nelson and Greene streets (not including these two streets) to Eastern avenue; along Eastern avenue (not including it) to Manhattan street; along Manhattan street (not including it) to Walnut street; along Walnut to Hickory, and along Hickory to the junction of Hancock and Central streets.

Pupils living on Alden street east of Nos. 78 and 85 attend the Eastern avenue school.

ARMORY STREET ELEMENTARY SCHOOL.—On the west side of Armory street a short distance north of its junction with Liberty street. Area of lot, 56,700 square feet.

This district is bounded on the south by the Boston and Albany railroad; on the west by Webster, Franklin, and Cass streets (not including them); on the east by Kendall avenue, Penacook avenue, and St. Lawrence avenue (not including them). No northern boundary is fixed for this district.

BARROWS ELEMENTARY SCHOOL.—On the southeast corner of Oak and Tyler streets, near the junction of Oak and Walnut streets. Area of lot, 37,498 square feet.

This district extends from the Boston and Albany railroad southerly along Federal and Walnut streets to Pine; along Pine street to Ashley; Ashley (not including it) to Hancock; along Alden street (not including it) to the New England railroad; along the New England railroad to Tyler street, and along Tyler to Hancock; along Hancock to State; through the middle of State street to Magazine street; along Magazine and Armory streets to the Boston and Albany railroad (including Armory street court).

The section bounded by Hickory street, Watershops pond, King street, and the New England railroad is also included in this district.

The children of grades I. to V., residing in that part of the Barrows district which is included in the Eastern avenue district, will attend the Eastern avenue school.

The children of grades I. to IV., residing in that part of the Barrows district which is included in the Alden street, Strickland, and East Union street districts, will attend the Alden street, Strickland, and East Union street schools.

BOSTON ROAD ELEMENTARY SCHOOL.—On the north side of Boston road, a little east of Jasper street, about three and one-half miles from Court Square. Area of lot, 22,500 square feet.

This district is bounded on the south by Balis street (including it); on the east by the north branch of Mill river; on the north by a line drawn from the north branch of Mill river, through Arlington avenue (not including it) to Boston road, along Boston road, through Brandon avenue, across the Boston and Albany railroad, along Lake Drive, through Superior street. There is no western boundary fixed.

BRIGHTWOOD ELEMENTARY SCHOOL.—Northeast corner of Plainfield street and Talcott avenue. Area of lot, 32,355 square feet.

The eastern boundary is the Boston and Maine railroad. The southern boundary is West street.

BUCKINGHAM JUNIOR HIGH AND ELEMENTARY SCHOOL.—On the southeast corner of Eastern avenue and Wilbraham road near Winchester Park. Area of lot, 94,570 square feet.

Pupils of grades V. through Junior High, living in the Homer street district, and pupils of Junior High grades, living in the Tapley and Dry Bridge districts, attend Buckingham school.

NOTE.—Pupils in the Tapley district living west of Harvard street and north of St. James avenue may attend the State street school at the option of their parents.

Children of the Barrows district living north of King street (including it) and east of Oak and Walnut streets (not including them) attend the Buckingham school in Junior High grades. Children of grades V. through Junior High, living in the East Union street district north of Tyler street (not including it) and east of Hancock street, attend the Buckingham school.

CAREW STREET ELEMENTARY SCHOOL.—On the south side of Carew street, near Main street. Area of lot, 35,911 square feet.

This district is bounded on the north by Plainfield street, North Main street (numbers south of 69), Morgan street (not including it), Massasoit street (not including it); on the east by Cass street (numbers north of 120); on the south by Linden street (not including it), Essex street (including it), Auburn street (not including it); on the west by Fulton street from No. 127 to the railroad bridge.

CENTRAL STREET JUNIOR HIGH AND ELEMENTARY SCHOOL.—Corner of Central and Spruce streets. Area of lot, 55,460 square feet.

This district extends from the U. S. Watershops westerly along Mill river to the junction of Mill and Locust streets; along Mill to Pine street;

thence in a straight line to the junction of Maple and Central; Central to Cedar to Ashley; along Ashley to Alden, and along Alden to Hickory street. This district also includes Madison avenue and Sterns terrace.

Pupils of grades I. to IV., inclusive, residing in that part of the Alden street district which lies within the boundaries of the Central street district, attend the Alden street school.

Pupils of grades I. to V., inclusive, residing in that part of the Eastern avenue district which lies within the boundaries of the Central street district, attend the Eastern avenue school.

Pupils of Junior High grades, residing in that part of the Barrows district bounded by Pine, Walnut, and King streets easterly to Bonnyview avenue, including these streets, attend the Central street school.

CHARLES STREET ELEMENTARY SCHOOL.—On the north side of Franklin street, opposite Charles street. Area of lot, 9,856 square feet.

This district is bounded on the north by Linden street (including it); on the east by Cass street (including it south of Linden), Franklin and Webster streets (including them); on the south by the Boston and Albany railroad; on the west by Chestnut street (including the east side only).

CHESTNUT STREET JUNIOR HIGH AND ELEMENTARY SCHOOL.—On the east side of Chestnut street, near Prospect street. Area of lot, 138,794 square feet.

This district includes all the territory in the northern part of the city, the southern boundary being the Boston and Albany railroad.

Pupils of grades VI. and VII. residing in those parts of this district which are included in the Lincoln, Worthington street, and Armory street districts attend the latter schools.

DRY BRIDGE ELEMENTARY SCHOOL.—On St. James circle, near St. James avenue. Area of lot, 11,530 square feet.

This district is bounded on the south by the Boston and Albany railroad and on the west by Eddy street (not including it).

EASTERN AVENUE ELEMENTARY SCHOOL.—On the corner of Eastern avenue and Alden street. Area of lot, 27,560 square feet.

This district is bounded on the north by King street, from Nelson street to its easterly terminus; on the west by Nelson street from King to Greene street, thence the boundary line extends along Greene street to Eastern avenue; along Eastern avenue to Manhattan street; along

Manhattan to Walnut; along Walnut to Hickory; along Hickory east to Bonnyview avenue. All the foregoing streets, except Walnut, are included in this district.

EAST MAIN STREET ELEMENTARY SCHOOL.—Main street, Indian Orchard. Area of lot, 30,122 square feet.

This district includes that section of Indian Orchard (for grades I. to IV. B only) lying east of Cedar street (not including it).

EAST UNION STREET ELEMENTARY SCHOOL.—On the north side of Union street, between Hancock street and Eastern avenue. Area of lot, 24,298 square feet.

This district extends from the New England railroad westerly along Wilbraham road and the middle of State street to Hancock; along Hancock to King street; along King street (not including it) to the railroad; along the railroad to Wilbraham road.

FOREST PARK JUNIOR HIGH SCHOOL.—On Garfield street, off Belmont avenue. Area of lot, 120,118 square feet.

All the children of Junior High grades, living in the Sumner avenue, Kensington avenue, Washington and White street school districts, attend this school.

GLENWOOD ELEMENTARY SCHOOL.—On the north side of Springfield street, near its junction with Armory street, and near the Chicopee line. Area of lot, 43,656 square feet.

HOMER STREET ELEMENTARY SCHOOL.—On Homer street, between State street and Wilbraham road. Area of lot, 84,265 square feet.

This district is bounded on the west and south by the East Union street, Eastern avenue, and Tapley school districts; on the north by the Boston and Albany railroad and the Tapley district; on the east by a line drawn from the Boston and Albany railroad through Balis street (not including it).

HOOKER ELEMENTARY SCHOOL.—70 Franklin street. Area of lot, 55,582 square feet.

This district is bounded on the north by Auburn street (including it), Essex street (not including it); on the west by Chestnut street (including the east side only, numbers south of 372) to Sharon street; on the south by the Boston and Albany railroad; on the west by Fulton street. This

district includes Sharon street to Nos. 135 and 136 (not including them), Ferry street to Nos. 169 and 172, and Liberty street to No. 76 (including them).

Pupils of the Charles street district attend the Hooker School for grades above IV. B.

HOWARD STREET ELEMENTARY SCHOOL.—On the south side of Howard street. Area of lot, 71,210 square feet.

This district is bounded on the north by Bridge street (not including it between Main and Chestnut streets): on the east by Chestnut and Maple streets (not including these streets) from Bridge street to Union street; on the south by Union street.

Children of grades VI. and VII. living in the Acushnet avenue school district and children of grades IV. A to VII. living in the William street school district also attend this school.

All the streets mentioned above are included in this district, except when otherwise stated.

Mill street and the easterly half of Central street, between Main and Maple streets, are regarded as belonging to Central street district for those who prefer it on account of its nearness.

JEFFERSON AVENUE ELEMENTARY SCHOOL.—On the south side of Jefferson avenue, corner of North street. Area of lot, 20,003 square feet.

This district is bounded on the north by Sheldon and Calhoun streets, and Chapin terrace (not including them). No eastern boundary is fixed for this district. On the south the district is bounded by Massasoit place (including it), Chestnut street (numbers north of 482, including that number), Ringgold street (not including it), North street (numbers north of 1160, not including it, and 1141, including it), Morgan street (including it); on the west by Plainfield street (not including it), and Birnie avenue (including it).

KENSINGTON AVENUE ELEMENTARY SCHOOL.—On the south side of Kensington avenue, between Earl and Oakland streets. Area of lot, 110,320 square feet.

This district is bounded on the north by Mill river; on the east by White street (not including it), Wareham, Orange, Pasadena, and Pomona streets (not including them); on the south by Grenada terrace and Dickinson street (including them), Belmont avenue (including the north side of it); on the west by Marengo Park and Dickinson street to Mill river.

LIBERTY ELEMENTARY SCHOOL.—On north side of Carew street, between Alvin and Judson streets. Area of lot, 135,000 square feet.

This district is bounded on the north by the Chicopee Falls line, Champlain and Thornfell streets (including them); on the east by Eddy street; on the west by Kendall avenue, Penacook avenue and St. Lawrence avenue (including them); on the south by the Boston and Albany railroad.

LINCOLN ELEMENTARY SCHOOL.—On the west side of Chestnut street, between Harriet and Cumberland streets. Area of lot, 30,713 square feet.

This district is bounded on the west by the Boston and Maine railroad; on the south by Sheldon and Calhoun streets, and Chapin terrace (including them), no boundaries being fixed for the northern and eastern sides of this district.

MYRTLE STREET JUNIOR HIGH AND ELEMENTARY SCHOOL.—At the corner of Worcester and Myrtle streets, Indian Orchard. Area of lot, 54,639 square feet.

This district includes Indian Orchard, except that in grades I. to IV. B inclusive, the section west of Cedar street only is included.

RUSHVILLE PORTABLE ELEMENTARY SCHOOL.—On the south side of Dewey street, near Berkshire avenue. Area of lot, 87,120 square feet.

This district extends on the north from Superior street; along Lake Drive; across the Boston and Albany railroad; along Brandon avenue to Boston road; along Boston road to Arlington avenue; along Arlington avenue (not including it) to north branch of Mill river. The eastern boundary is the north branch of Mill river. The southern boundary is along Morton avenue and Bay street (not including Bay street) to Boston and Albany railroad. There is no western boundary fixed.

SCHOOL STREET ELEMENTARY SCHOOL.—Southeast corner of School and High streets. Area of lot, 86,156 square feet.

This district is bounded on the north by Pearl street (not including it), and by State from Byers street to Walnut street; on the west by Chestnut and Maple streets, from Pearl to Avon place; on the south by Avon place, Mulberry and Union streets to Walnut, and on the east by Walnut street (not including it), including the streets mentioned, except when otherwise stated.

STATE STREET JUNIOR HIGH SCHOOL.—On the south side of State street, west of the Central High school. Area of lot, 30,992 square feet.

This school is for pupils of Junior High grades, residing in that part

of the Barrows district west of Bowdoin street (not including it) and west of and including Oak and Walnut streets to Pine street. It further includes pupils of Junior II. and III. from the Howard street district, and all Junior High pupils from that part of the Worthington street district south of the railroad.

Pupils of Junior High grades residing in the School street district also attend this school.

Pupils of Junior High grades, living in that part of the Tapley district west of Harvard street and north of St. James avenue, may attend the State street school at the option of their parents.

STRICKLAND ELEMENTARY SCHOOL.—On the southwest corner of Oak and Union streets. Area of lot, 15,753 square feet.

From the Boston and Albany railroad along Armory street to Worthington (including Armory street court); Worthington to Magazine; along Magazine to State; through the middle of State street easterly to Hancock; along Hancock (not including it) to King; along King and James streets (not including these streets) to Cedar; along Cedar (not including it) to Pine; along Pine to Walnut; along Walnut and Federal streets to the Boston and Albany railroad.

SUMNER AVENUE ELEMENTARY SCHOOL.—On the south side of Sumner avenue between Beechwood avenue and Long Hill street. Area of lot, 98,000 square feet.

This district is bounded on the north by Mill river; on the east the line extends along Belmont avenue (including it), from Mill river to Marengo Park, and continues along Belmont avenue to its intersection with Sumner avenue and Dickinson street (not including this latter section of Belmont avenue); on the south the boundary line is Forest Park and the west side of Sumner avenue from its intersection with Dickinson street and Belmont avenue. In addition, the district shall include Woodside terrace, Leyfred terrace and Bellevue avenue.

TAPLEY ELEMENTARY SCHOOL.—On the southwest corner of Bay and Sherman streets. Area of lot, 92,626 square feet.

This district extends from the Boston and Albany railroad along Bowdoin street to Worthington; along Worthington westerly to Magazine street; along Magazine (not including it) to State; through the middle of State street easterly to the New England railroad; along this railroad to Burr street; Burr to Oak Grove avenue; Oak Grove avenue to Bay;

along Bay street to the Boston and Albany railroad (including Aster, Goldenrod, Arbutus, and Baywood streets); along the Boston and Albany railroad to Bowdoin street.

Children of the Dry Bridge district attend the Tapley school for grades V. and VI.

WASHINGTON ELEMENTARY SCHOOL.—On the corner of Woodlawn avenue and Washington street. Area of lot, 87,120 square feet.

This district is bounded on the west by Forest Park and includes the east side of Sumner avenue from Oakland street to its intersection with Belmont avenue and Dickinson street; on the north by Belmont avenue (including the south side of the street), Dickinson street and Grenada terrace (not including them), Pomona street (not including it), and Sumner avenue (including the south side of the street). No eastern and southern boundaries are fixed for this district.

WHITE STREET ELEMENTARY SCHOOL.—On the west side of White street between Dawson avenue and Buckler street. Area of lot, 100,000 square feet.

This district is bounded on the west by White, Wareham, Orange, Pasadena, and Pomona streets (including them); on the south by Sumner avenue (including the north side of it). No eastern and northern boundaries are fixed for this district.

WILLIAM STREET ELEMENTARY SCHOOL.—On the south side of William street between Main and Water streets. Area of lot, 35,602 square feet.

This district is bounded on the north by Union street (not including it); on the east by Maple street (not including it); and on the south by Loring and Central streets, including these streets.

WORTHINGTON STREET ELEMENTARY SCHOOL.—On the south side of Worthington street, east of Spring street. Area of lot, 30,756 square feet.

This district includes, north of the Boston and Albany railroad, pupils of grades I. to VI., inclusive, living on Sharon street east of Nos. 135 and 136 (including them), on Ferry street east of Nos. 169 and 172 (not including them), and on Liberty street east of No. 76 (not including it), and pupils living on the west side of Chestnut street, south of Sharon street.

On the south side of the Boston and Albany railroad, the boundary line for grades I. to VI., inclusive, extends along the Connecticut river to

Bridge street to Chestnut, including Bridge street only from Main to Chestnut; thence along Chestnut to Pearl, along Pearl to Federal, and along Federal to the Boston and Albany railroad, all the streets named being included.

FIVE MILE POND UNGRADED SCHOOL.—At Dimmock's Corner, on the Boston road about five miles from Court Square. Area of lot, 18,887 square feet.

SIXTEEN ACRES UNGRADED SCHOOL.—Near Sixteen Acres pond, and near the junction of North Wilbraham road with the road leading from Ludlow to East Longmeadow, about six miles from Court Square. Area of lot, 15,056 square feet.

STATISTICS OF THE

SPRINGFIELD HIGH SCHOOLS.

CENTRAL HIGH SCHOOL

Year.	Number of Pupils.	Number of Graduates.	Year.	Number of Pupils.	Number of Graduates.
1849	158		1885	348	34
1850	170		1886	379	43
1851	185		‡1887	372	61
1852	159		1888	370	52
1853	170		1889	344	61
1854	176		1890	345	45
1855	186		1891	391	56
*1856	166	9	1892	408	52
1857	156	14	1893	429	53
1858	172	14	§1894	468	53
1859	166	17	1895	483	51
1860	173	25	1896	484	58
1861	163	13	1897	525	86
1862	177	17	1898	569	83
1863	174	15	1899	622	70
1864	162	5	1900	657	124
1865	146	21	1901	704	84
1866	137	10	1902	751	103
1867	148	12	1903	763	111
1868	195	16	1904	890	120
†1869	217	2	1905	975	133
1870	207	14	1906	1002	158
1871	181	19	‖1907	730	130
1872	172	24	1908	697	112
1873	185	21	1909	771	132
1874	201	20	1910	767	120
1875	246	16	1911	813	91
1876	336	33	1912	831	118
1877	354	27	1913	813	117
1878	407	51	.1914	855	131
1879	426	54	1915	924	126
1880	405	58	1916	971	135
1881	372	46	1917	989	139
1882	346	44	°1918	952	169
1883	322	42	1919	827	140
1884	322	49			

TECHNICAL HIGH SCHOOL.

1899	18		1910	1,051	88
1900	61		1911	669	60
1901	77	2	1912	791	52
1902	90	3	1913	857	78
1903	120	16	1914	956	93
1904	162	18	1915	1,031	115
1905	180	13	1916	1,068	101
1906	223	14	1917	1,002	98
‖1907	681	66	°1918	869	131
1908	787	78	1919	807	108
1909	928	65			

HIGH SCHOOL OF COMMERCE.

1911	480	40	1916	1,047	124
1912	547	69	1917	1,206	140
1913	579	68	°1918	1,124	143
1914	688	81	1919	1,104	143
1915	841	89			

*Previous to this date there were no graduating exercises.

†The course was changed this year from three to four years.

‡This was the first year that any pupils were graduated in the two years' Business Course.

§The Business Course was abolished after 1894.

‖The Commercial Department was transferred from Central High to Technical High in September, 1916.

°There were no entering classes in September, 1917, due to the change in the grading system whereby the senior high course was changed from four years to three years.

EXPENDITURES, SCHOOL POPULATION AND ENROLLMENT.

From the Organization of the City in 1852.

YEAR.	Current Expenses.	Repairs and Alterations.	New Buildings.	School Census.	Enrollment.	Aver. No. Belonging
1852	$6,556 89	.....	.....	2,188	2,270	1,549
1853	13,257 31	.....	.....	2,253	2,273	1,642
1854	15,049 89	.....	.....	2,449	2,561	1,621
1855	16,451 22	.....	.....	2,641	2,409	1,769
1856	17,501 03	.....	.....	2,606	2,441	1,815
1857	18,727 67	$4,146 81	$6,403 47	2,525	2,459	1,824
1858	18,494 40	3,144 54	671 00	2,675	2,569	1,862
1859	18,315 77	2,939 82	1,553 16	2,506	2,546	1,855
1860	18,115 04	3,532 04	.....	2,472	2,594	1,934
1861	17,961 30	2,956 24	.....	2,688	2,752	1,959
1862	19,358 08	2,601 92	.....	3,090	3,027	2,133
1863	22,361 56	939 55	.....	3,341	3,808	2,342
1864	29,941 54	5,662 30	10,645 00	3,709	3,753	2,296
1865	37,242 93	5,516 10	53,969 78	3,713	3,822	2,490
1866	48,542 28	5,728 90	59,062 72	3,846	3,675	3,187
1867	54,423 56	3,718 32	41,267 84	4,225	3,760	3,266
1868	66,544 60	7,529 04	62,270 59	4,141	4,029	3,304
1869	68,524 83	7,778 57	34,285 49	4,156	4,617	3,509
1870	73,636 97	4,027 70	12,444 57	4,232	4,679	3,822
1871	79,489 26	4,096 28	28,490 00	4,167	4,901	3,717
1872	92,286 88	5,086 27	71,202 63	4,331	4,853	3,674
1873	96,389 77	16,760 80	53,095 82	4,399	5,238	3,900
1874	110,066 43	16,545 76	69,979 01	4,712	5,448	4,071
1875	115,788 04	21,958 95	17,098 73	5,668	5,743	4,296
1876	106,949 96	5,221 48	.....	5,408	5,840	4,481
1877	89,489 74	2,938 91	.....	5,375	5,877	4,615
1878	83,087 62	1,708 02	.....	5,379	5,625	4,296
1879	81,780 65	2,528 04	.....	5,524	5,636	4,475
1880	83,053 74	7,497 14	1,169 69	5,865	5,834	4,536
1881	88,267 73	9,240 86	.....	6,285	5,961	4,667
1882	92,081 29	9,088 23	.....	6,452	6,054	4,727
1883	96,624 26	10,672 68	17,228 99	6,566	6,070	4,661
1884	107,523 96	10,159 73	7,664 96	6,583	5,520	4,527
1885	111,851 90	7,490 23	1,626 17	6,330	5,665	4,517
1886	109,990 53	7,021 26	.....	6,472	5,813	4,648
1887	115,749 65	9,399 94	19,053 56	6,516	5,841	4,643
1888	124,739 06	9,348 20	30,712 40	6,416	5,922	4,647
1889	134,938 12	9,314 65	39,072 98	6,935	6,165	4,963
1890	146,488 62	16,206 53	48,943 67	7,054	6,455	5,180
1891	157,644 68	17,690 70	76,052 19	7,134	7,214	5,128
1892	163,570 40	10,447 98	13,829 18	7,318	7,805	5,585
1893	172,296 48	11,549 10	26,314 01	7,716	8,357	5,799
1894	184,592 41	10,995 75	46,562 87	8,002	8,553	6,340
1895	196,620 20	13,647 77	26,758 82	8,041	8,962	6,661
1896	219,531 84	8,911 17	43,878 11	8,307	9,670	7,074
1897	239,679 72	16,095 08	238,196 30	8,814	9,494	7,869
1898	265,158 05	38,881 39	363,249 04	9,202	10,044	8,260
1899	302,854 35	12,706 09	71,783 82	9,738	10,786	9,072
1900	321,804 66	11,437 20	81,698 41	10,251	11,261	9,300
1901	339,677 59	24,080 85	94,340 94	10,405	11,574	9,612
1902	351,999 63	13,167 60	96,268 67	10,899	12,162	10,206
1903	359,317 47	15,438 28	100,385 33	11,490	12,542	10,290
1904	399,359 63	17,847 82	87,274 88	11,738	12,842	10,818
1905	400,821 51	18,216 94	256,946 05	*13,089	13,161	11,183
1906	424,437 43	20,671 47	149,771 35	*13,359	13,601	11,372
1907	†373,330 38	†21,552 30	†122,727 70	*13,786	13,796	11,516
1908	485,064 25	25,613 77	139,180 18	*14,091	14,451	12,378
1909	509,693 30	26,425 33	46,449 47	*14,335	14,968	12,808
1910	546,894 49	29,186 91	43,141 00	*14,659	15,576	13,024
1911	599,246 97	23,458 83	88,861 00	*15,221	16,074	13,550
1912	640,527 83	35,716 10	42,087 33	*15,915	16,584	13,847
1913	696,066 08	37,072 32	235,401 52	*16,855	17,492	14,563
1914	‡769,435 20	‡41,002 78	‡891,761 02	*17,480	18,696	15,935
1915	856,279 15	36,979 03	243,441 01	*18,129	19,329	16,632
1916	921,230 24	65,635 85	163,463 96	.....	20,197	17,159
1917	1,038,136 10	57,363 18	362,255 98	*20,018	20,975	17,986
1918	1,185,301 09	47,843 27	343,408 97	*21,434	22,047	18,585
1919	1,390,919 10	46,787 81	472,083 13	*22,793	22,453	18,860

*From five to sixteen years of age. †Expenditures are for 11 months.
‡Expenditures are for 13 months, except for teachers' salaries, which are for one year.

TABLE GIVING A BRIEF DESCRIPTION OF SCHOOL PROPERTY.

BUILDINGS.	No. of Regular Schoolrooms.	No. of Portable Schoolrooms.	No. of Desks and Seats.	No. of Kindergartens.	No. of Recitation Rooms.	Special Rooms.					Assembly Halls.	Gymnasiums.	Wood or Brick.	No. of Stories.	Condition.	Date of Occupation.	Heating Apparatus.	Area Lots. (Square Feet.)
						Manual Training or Shop.	Drawing.	Cooking.	Sewing.	Laboratories.								
Central High	17	..	862	..	13	..	2	1	1	6	2	1	B	3	Good	1896	Steam	79,874
High School of Commerce	48	..	1,727	..	4	1	2	2	3	5	1	2	B	3	New	1915	Steam	129,480
Technical High	18	..	811	..	..	12	4	1	2	..	1	1	B	3	Good	1906	H. W.	103,201
Vocational	..	..	....	..	1	5	..	..	..	..	1	..	B	2	Good	1891	H. A.	14,013
Acushnet Avenue	12	..	478	1	1	1	..	..	..	..	..	..	B	2	Good	1896	Steam	33,680
Alden Street	4	..	163	..	..	..	..	..	..	..	..	..	B	3	Good	1890	Steam	19,765
Armory Street	20	..	822	1	..	1	..	1	..	..	..	..	B	2	Good	1901	Steam	56,700
Barrows	11	..	438	..	..	1	..	..	..	..	1	..	B	3	Good	1868	Steam	37,496
Boston Road	4	..	154	..	..	..	..	..	..	..	..	..	W	2	Good	1899	H. A.	22,500
Brightwood	17	..	661	1	..	..	..	..	..	..	..	..	B	2	Good	1899	Steam	87,120
Buckingham	25	..	1,033	..	3	3	2	2	1	..	1	1	B	2	Good	1891	H. A.	94,570
Carew Street	13	..	556	1	1	1	..	..	..	..	..	..	B	2	Good	1894	H. A.	35,911
*Carlisle	1	..	....	..	..	..	..	..	..	..	..	..	B	2	....	....	Stove	17,192
Central Street	18	..	816	1	2	1	..	1	..	..	..	..	B	3	Good	1871	Steam	55,460
Charles Street	4	..	182	..	..	..	..	..	..	..	..	..	B	2	Good	1890	Steam	9,856
Chestnut Street	38	..	1,587	..	2	5	3	2	2	..	..	..	B	3	Good	1903	Steam	138,794
Dry Bridge	1	1	69	..	..	..	..	..	..	..	..	..	W	1	Good	1881	Stove	11,530
Eastern Avenue	7	..	280	1	1	..	..	..	..	..	..	..	B	2	Good	1899	H. A.	27,560
East Main Street, I. O.	4	1	200	1	..	..	..	..	..	..	..	..	W	2	Good	1898	H. A.	30,122
East Union Street	7	..	293	1	1	..	..	..	..	..	..	..	B	2	Good	1876	Steam	24,298
Five Mile Pond	2	..	62	..	..	..	..	..	..	..	..	..	B	2	Good	....	Stove	18,887
Forest Park	21	2	914	..	1	†5	1	1	2	..	..	1	B	3	Good	1899	Steam	120,118
Glenwood	4	..	77	..	..	..	..	..	..	..	..	..	B	2	Good	1903	Steam	43,656
Homer Street	9	5	671	1	..	..	..	..	..	..	..	..	B	2	Good	1898	Steam	84,265
*Hooker	14	..	....	1	..	1	..	..	..	..	..	..	B	3	Good	1866	Steam	33,407
Hooker (New)	23	..	876	1	..	1	..	1	..	..	1	1	B	2	New	1918	Steam	55,562
Howard Street	24	..	957	1	..	1	..	1	1	..	1	..	B	2	Good	1906	Steam	71,210
Jefferson Avenue	11	..	454	1	..	..	..	..	..	..	..	..	B	2	Good	1889	Steam	20,003
Kensington Avenue	16	..	650	1	2	..	..	..	..	..	..	..	B	2	Good	1909	Steam	110,220
Liberty	8	..	244	..	..	..	..	..	..	..	1	..	B	2	New	1918	Steam	135,000
Lincoln	17	..	700	..	..	1	..	..	..	..	..	..	B	2	Good	1910	Steam	30,713
Myrtle Street, I. O.	18	..	764	1	2	1	1	1	1	..	1	1	B	3	Good	1868	Steam	54,639
Rushville	..	2	84	..	..	..	..	..	..	..	..	..	W	1	Good	1916	Stove	87,120
School Street	4	..	158	..	1	..	..	..	..	..	..	..	B	2	Good	1892	Steam	86,156
Sixteen Acres	2	..	44	..	..	..	..	..	..	..	..	..	B	2	Good	....	Stove	15,056
State Street	16	..	600	..	..	1	1	1	1	..	1	..	B	3	Good	1874	Steam	30,992
Strickland	6	..	252	..	..	..	..	..	..	..	..	..	B	2	Good	1884	H. A.	15,753
Sumner Avenue	10	..	345	1	1	..	..	..	..	..	1	..	B	2	Good	1912	Steam	98,000
Tapley	16	..	685	1	..	..	..	..	..	..	1	..	B	2	Good	1898	Steam	92,626
*Wachogue	1	..	..	..	..	..	..	..	..	..	..	..	W	1	Fair	....	Stove	8,275
Washington	15	..	550	1	..	..	..	..	1	..	..	..	B	2	New	1918	Steam	87,120
White Street	10	1	429	1	..	..	..	..	..	..	..	..	B	2	Good	1905	Steam	100,000
William Street	10	..	408	1	..	..	..	..	..	..	..	..	B	2	Good	1901	Steam	35,602
Worthington Street	13	..	530	1	..	..	..	..	..	..	..	..	B	3	Good	1889	Steam	30,756
Storehouse, Emery St.	..	..	....	..	..	..	..	..	..	..	..	..	B	2	Good	1913	Steam	6,806
Old office, Vernon St.	..	..	....	..	..	..	..	..	..	..	..	..	W	2	Poor	....	Steam	6,872
	539	12	21,586	21	36	42	16	15	15	11	14	8	..	..	....	....	.....	....

* Unused.
† Including 1 portable room.

Under Heating Apparatus, H. A.=Hot Air.
" " " H. W.=Hot Water.

SPRINGFIELD PUBLIC SCHOOLS

RATES OF TUITION FOR NON-RESIDENT PUPILS

DAY SCHOOLS

Senior High,	$150 a year
Vocational,	15 a month
Junior High,	100 a year
Grades V and VI,	60 a year
Kindergarten and Grades I-IV	40 a year

EVENING SCHOOLS

High,	$20 for the season
Elementary,	20 for the season
Trades,	$15 and $20 for the season
Vocational,	75c per lesson

Tuition must be paid in advance.

LENGTH OF SERVICE OF MEMBERS

OF THE

SPRINGFIELD SCHOOL COMMITTEE

From the Organization of the City in 1852

		Total Years of Service.
Josiah Hooker	1852–1853 (Chairman) 1856–1867 (Chairman) (Also a member in 1851 and Chairman in 1848, before city was chartered)	16
C. A. Winchester	1852–1854 (Also a member in 1851)	4
A. S. McClean	1852–1854 (Also a member in 1851)	4
George Merriam	1852	1
William P. Bagg	1852	1
Marcellus Pinney	1852 1855 1861–1863 1867–1869	8
Samuel Walker	1852	1
Frederick Holt	1852	1
Alfred Lambert	1853	1
V. L. Owen	1853 1856–1859	5
Jabez C. Terry	1853	1
Henry Pomeroy	1853–1854	2
Harvey E. Moseley	1853 and 1855	2
Horace S. Taylor	1854	1
Samuel McNary	1854 (Also a member in 1847 and 1848)	3
George O. Lombard	1854	1
Frederick Holt	1854	1
Chester R. Chaffee	1855	1
John E. Taylor	1855 (Chairman) 1871–1882 (1874–1882 Chairman)	13
Henry R. Vaille	1855	1
Randolph E. Ladd	1855	1

		Total Years of Service.
Charles P. Bragdon	1855	1
Isaac P. Dickinson	1855	1
William L. Smith	1856 (Also a member in 1849 and 1850)	3
Samuel Osgood	1856–1862 (Also a member in 1849 and 1850)	9
John B. Kirkham	1856	1
Edwin L. Hall	1856–1860	5
John Kimberly	1856–1860	5
Samuel Mills, Jr	1856	1
William G. Breck	1857–1858	2
James E. McIntire	1857–1864	8
Abram Paige	1857–1858	2
E. D. Murphy	1857–1858	2
R. B. Hildreth	1859–1864	6
Charles Marsh	1859	1
Marcus W. Fay	1859–1863	5
Osmond Tiffany	1860–1861	2
Gershom W. Harrison	1860–1862	3
Robert Crossett	1861–1862	2
Francis Tiffany	1862–1864	3
S. G. Buckingham	1863–1877 (1872–1873 Chairman)	15
Horace Kibbe	1863–1870	8
Obadiah Frary	1863	1
J. G. Chase	1864 1876–1881	7
William W. Gardner	1864–1866 1870–1875 1882–1884	12
A. J. Plumer	1864–1865	2
Josiah Marvin	1865–1867	3
William Rice	1865–1882 (1869–1871 Chairman)	18
John L. King	1865–1872	8
John B. Stebbins	1865–1869	5
Hiram Warner	1866–1869	4
Horace J. Chapin	1868	1
J. M. Stebbins	1868–1873	6
Samuel W. Porter	1869–1877	9
Mrs. Randolph E. Ladd	1870	1

		Total Years of Service.
Charles J. Goodwin	1870–1872 1874–1890	20
S. D. Burbank	1871–1872	2
T. M. Brown	1873–1880	8
Stephen Harris	1875	1
A. D. Mayo	1874–1879	5
John Fallon	1874–1875	2
John Giles	1876–1878	3
Sanford Lawton, Jr	1878–1880	3
L. H. Cone	1878–1880	3
A. M. Copeland	1879–1881	3
Joseph C. Pynchon	1880–1882	3
John R. Smith	1881–1886	6
Cornelius S. Hurlbut	1881–1889	9
O. M. Baker	1881–1886 (1883–1886 Vice-Chairman)	6
James D. Safford	1882–1889	8
Avery J. Smith	1883–1885	3
George H. Bleloch	1883–1891 (1887–1889 Vice-Chairman)	9
Milton Bradley	1883–1885	3
Rawson Hathaway	1885–1890	6
James L. Johnson	1886–1891	6
Edward H. Phelps	1886–1888	3
Adelaide A. Calkins	1887–1898	12
Ellen B. Merriam	1887–1892	6
Harlan P. Stone	1889–1894 (1890–1894 Vice-Chairman)	6
Clark W. Bryan	1890–1898	9
William C. Simons	1890–1899 (1895–1899 Vice-Chairman)	10
Edward O. Robinson	1891–1892	2
Henry K. Wight	1891–1896	6
Elisha B. Maynard	1892–1897	6
	(1887–1888 Mayor and Chairman)	2
Samuel D. Brooks	1892–1894	3
Rachel B. Jacobs	1893–1904	12
William O. Day	1893–1896	3
James G. Dunning	1895–1897 1900–1902	6

		Total Years of Service.
Adelaide H. Trask	1895–1897 1899–1904	9
Frank N. Seerley	1897–1911	15
Charles Jacobus	1897–1899	3
Oscar B. Ireland	1898–1903 (1900–1903 Vice-Chairman)	6
Willard F. Tripp	1898	1
George D. Weston	1898–1909	12
William F. Ray	1899	1
John A. Hall	1899–1901	3
Franklin A. Latimer	1900 1915–	1
Frederick E. Hopkins	1900–1908	9
Frank H. Goldthwaite Frederick H. Stebbins	(Mr. Goldthwaite resigned in June, 1901, his place being taken by Mr. Stebbins)	1
Edward H. Wilkinson	1902–1912 (1904–1912 Vice-Chairman)	11
James B. Carroll	1902–1904	3
Francis M. Bennitt	1903–1914 (1913–1914 Vice-Chairman)	12
James A. Bill, Jr	1904–1906	3
James S. Judd	1905–1907	3
Leona M. Peirce	1905–1916	12
Mrs. Newton Morgan	1905–1913	9
Wayland V. James	1907– (1917-1920 Vice-Chairman)	
William M. Kimball	1908–1910	3
Frederick Harris	1909–1917 (1915 Vice-Chairman)	9
Irving S. Pulcifer	1910–1912	3
Ralph B. Ober	1911-1919	9
George H. Howard	1912–	
Newton M. Hall	1913– (1916 Vice-Chairman)	
Henry L. Hirsch	1913–	
Florence Clark	1914-1919	6
Edward M. Porter	1917–	
George H. Foss	1918–	
George H. Angell	1920-	
Mrs. Jeanne J. Starr	1920-	

The Mayor has been Chairman of the School Committee, ex officio, since 1883:—

H. M. Phillips	1883–1885
Edwin D. Metcalf	1886
Elisha B. Maynard	1887–1888
Edward S. Bradford	1889–1891
Lawson Sibley	1892
Edmund P. Kendrick	1893–1894
Charles L. Long	1895
Newrie D. Winter	1896
Henry S. Dickinson	1897–1898
Dwight O. Gilmore	1899
William P. Hayes	1900–1901
Ralph W. Ellis	1902
Everett E. Stone	1903–1904
Francke W. Dickinson	1905–1906
William E. Sanderson	1907–1909
Edward H. Lathrop	1910–1912
John A. Denison	1913–1914
Frank E. Stacy	1915–1918
Arthur A. Adams	1919–

REPORT

OF THE

SUPERINTENDENT OF PUBLIC BUILDINGS

SPRINGFIELD, MASS., December 22, 1919.

To His Honor, the Mayor, and the City Council.

GENTLEMEN:—I herewith submit for your consideration the annual report of the Department of Public Buildings for the year ending November 30, 1919.

DIVISION OF SCHOOLS.

ADDITIONS TO BUILDINGS.

Under the direction of the Committee on City Property the following additions to school buildings are now in process of construction and will be ready for occupancy early in 1920.

CHESTNUT STREET SCHOOL. This addition is to contain an assembly hall, gymnasium, locker, and bath rooms. It will also have a separate heating and ventilating system. E. C. & G. C. Gardner are the architects. L. S. Wood is the general contractor, A. A. Shea the electrical contractor, and the W. J. Hyland Manufacturing Company will install the heating and plumbing systems. The gymnasium apparatus is to be furnished by A. G. Spalding & Bros. The appropriations for this building and equipment, total $153,500.

HOMER STREET SCHOOL. The Committee on City Property acquired land for an addition to this building during the year 1918 and plans have been made for an addition to contain eight regular class rooms, one large kindergarten and two small kindergarten rooms. Changes are to be made in the old building so as to make two class rooms of the room formerly used as a kindergarten. A new heating system with two boilers is to be installed and the heating system in the old building is to be remodeled, making practically a new system for the whole building. E. C. & G. C.

Gardner are the architects for this addition. E. J. Pinney is the general contractor, The Interstate Electric Construction Company have the electrical contract, J. J. Cotter Company the plumbing and heating contracts. The appropriations for building and furnishing this addition total $159,500.

Forest Park School. An addition to this building was commenced early this year. It will contain an assembly hall, gymnasium, locker and bath rooms, also twelve regular class rooms, two rooms for nature study, five rooms for domestic science, two rooms for science laboratories, two teachers' rooms, principal's office, secretary's office, and doctor's office. In the old building four rooms have been made from the space formerly used as an assembly hall, these rooms to be used for manual training purposes. B. Hammett Seabury is the architect and McClintock & Craig are the engineers. E. J. Pinney is the general contractor, R. A. Turner & Company will install the electrical equipment, and Wyckoff & Lloyd Company have the heating and plumbing contracts. A. G. Spalding & Bros. will furnish the gymnasium apparatus. $345,500 has been appropriated for this addition and equipment.

Vocational School. The Committee on City Property have now under consideration the selection of an architect for a new Vocational School. Plans for this school have been submitted and an architect will soon be chosen for this work.

Old Buildings.

Five Mile Pond School. During the year it became necessary, owing to the increase in the number of pupils in this section, to finish and furnish the second floor room in this building. A new fire escape was installed, also new furnaces and a ventilating system. This building is now an up-to-date schoolhouse with the exception of the closets. Sanitary closets should be installed during the coming year.

Lincoln School. One room in this building formerly used as part of the assembly hall was finished and furnished for use as a class room. Extra radiation and ventilating equipment was installed.

Washington School. When this building was planned, one section on the second floor was used as an assembly hall, but, owing to the increase in the number of pupils, it became necessary to cut this hall into three class rooms. Partitions were put in for class rooms, coat rooms, and closets, also extra heating, ventilating, temperature control, and plumbing equipment was installed. This change increased the seating capacity of this building by one hundred and twenty-six. A special appropriation was made for this work.

CHESTNUT STREET SCHOOL. All wiring for clocks in main building was relaid to connect with clock system in assembly hall and gymnasium.

ARMORY STREET SCHOOL. The heating system in this building having caused considerable trouble on account of the failure of the condensation in the return pipes to flow back to the boilers, an automatic pump and receiver were installed, also new indirect radiation was installed in the annex.

ELECTRIC LIGHTING SYSTEMS were completed during the year in the Acushnet Avenue, Charles Street, Homer Street (old building), East Union Street schools and commenced but not fully completed in the Jefferson Avenue, Strickland, Indian Orchard Primary, Alden Street, Washington (three rooms), and State Street Junior High schools (basement rooms).

DIVISION OF MUNICIPAL GROUP BUILDINGS.

ADMINISTRATION BUILDING. Changes were made in the offices of the School Department, City Auditor, and Assessors, as requested by the heads of these departments. Extensive repairs were made to the roof of this building. New directories were installed on each floor.

AUDITORIUM. The painting of the exterior wood work was completed. The interior walls, posts, etc., were cleaned and painted during the early summer. New window shades were purchased and installed. All the draperies were steam cleaned. The roof of the building was repaired where needed.

The Auditorium was used for the following purposes during the year; 34 conventions, 27 concerts, 9 lectures, 41 dances, and 63 other affairs of a public or semi-public nature. Bills totaling $14,603 were forwarded to the City Collector for collection.

CAMPANILE. The Campanile was opened to the public in April, after being closed during the war. Since that date 8,983 people have gone up in the elevator to view the surrounding country.

SANITARY. The fact that the Sanitary is filling a long-felt want is shown by its extended use. $1,054.95 was collected from the pay toilets during the year and forwarded to the City Collector.

DIVISION OF MUNICIPAL HEATING PLANT.

During the year the interior walls and all pipes in this plant were painted. Heat was furnished for the Group, the Police Station, and the Fire Department Headquarters. $1,800 was received from the Fire Department for heat furnished and $2,707.50 from the Police Department.

DIVISION OF MILITIA RIFLE RANGE.

Owing to the uncertain status of the Militia companies, for whose use this Range was laid out, only absolutely necessary repairs were made during the year.

RENTED PROPERTY.

Tenement houses under the control of the Committee on City Property and situated on Spring street, Abbe avenue, and Sumner avenue were cared for during the year at a cost of $96.26. Bills for rent totaling $2,124 were forwarded to the City Collector for collection.

DETAIL OF EXPENDITURES.

GENERAL ADMINISTRATION.

Superintendent's salary	$2,867.15	
Clerical assistance	3,525.34	
Office supplies	79.86	
Stamps and stamped envelopes	108.84	
Printing and binding	81.39	
Telephones and telegrams	39.12	
Advertising	27.22	
Traveling expenses and meals	41.43	
New automobile truck	576.35	
Total expenditures		$7,346.70
Appropriations	$7,520.00	
Expenditures	7,346.70	
Balance unexpended	$173.30	

School	Care of Buildings and Grounds	Fuel	Light and Power	Miscellaneous Operating Supplies and Expenses	Totals
Acushnet Avenue	$1,728.63	$1,152.98	$203.79	$57.42	$3,142.82
Alden Street	1,022.00	500.25	68.66	15.69	1,606.60
Armory Street	2,818.60	2,168.19	249.85	144.67	5,381.31
Barrows	1,603.00	1,120.56	212.75	48.33	2,984.64
Boston Road	1,016.60	389.09	60.20	9.07	1,474.96
Brightwood	2,458.29	92.25	357.31	71.19	2,979.04
Buckingham	4,072.71	2,809.62	574.47	171.06	7,627.86
Carew Street	1,860.88	972.02	54.01	70.42	2,957.33
Carlisle (unoccupied)	22.20				22.20
Central Street	2,606.50	1,787.57	232.91	114.14	4,741.12
Charles Street	1,031.90	351.22	22.21	21.20	1,426.53
Chestnut Street	6,492.53	2,842.38	1,371.71	227.19	10,933.81
Dry Bridge	640.40	226.25		53.40	920.05
Eastern Avenue	1,370.27	861.70	11.80	67.39	2,311.16
East Union Street	1,435.66	749.80	235.70	45.66	2,466.82
Emery Street Shop	2,484.91	385.33	128.14	54.75	3,053.13
Five Mile Pond	470.60	91.70		6.75	569.05
Forest Park	3,550.67	1,649.62	411.76	241.74	5,853.79
Glenwood	1,038.82	266.24	4.55	16.66	1,326.27
High—Central	7,715.19	3,752.84	1,387.88	373.30	13,229.21
High—Commercial	19,897.51	3,410.81	1,202.32	743.17	25,253.81
High—Technical	10,221.08	5,674.59	1,214.44	597.30	17,707.41
Homer Street	2,326.16	1,979.94	43.33	49.74	4,399.17
Hooker (old)	26.65				26.65
Hooker (new)	4,142.51	740.66	656.90	88.10	5,628.17
Howard Street	3,583.34	2,036.06	1,163.97	176.39	6,959.76
Indian Orchard Grammar	3,594.12	2,402.81	583.09	133.33	6,713.35
Indian Orchard Primary	1,227.90	742.00	22.47	18.97	2,011.34
Jefferson Avenue	1,595.35	657.70	166.83	41.75	2,461.63
Kensington	2,383.80	588.61	145.95	119.43	3,237.79
Liberty	1,353.96	1,303.08	27.81	17.86	2,702.71
Lincoln	1,899.98	809.52	216.76	153.42	3,079.68
Rushville	689.00	174.53		9.14	872.67
School Street	915.41	468.12	22.47	13.59	1,419.59
Sixteen Acres	634.40	280.70		8.08	923.18
State Street	2,502.47	1,876.41	451.65	99.97	4,930.50
Strickland	1,272.84	845.92	35.04	35.59	2,189.39
Sumner Avenue	1,596.18	548.74	160.32	165.86	2,471.10
Tapley	1,828.88	1,712.12	150.79	74.48	3,766.27
Vocational	1,924.75	999.30	1,131.02	76.70	4,131.77
Washington	1,728.66	407.19	69.11	70.73	2,275.69
White Street	1,598.85	1,276.12	199.75	45.49	3,120.21
William Street	1,715.25	728.48	314.73	86.15	2,844.61
Worthington Street	2,048.90	1,251.28	468.63	66.13	3,834.94
	$116,148.31	$53,084.30	$14,035.08	$4,701.40	$187,969.09
Carried forward					$187,969.09

Brought forward,.....			$187,969.09
Automobiles:			
Salaries of chauffeur and helpers,.....		$1,594.38	
Supplies and replacements,.....		874.65	
Repairs,.....		240.77	
Registration,.....		14.00	
			2,723.80
Express and freight,.....			134.12
Pensions,.....			224.10
Operating equipment,.....			564.00
Care of rented property,.....			59.70
Total expenditures,.....			$191,674.81
Appropriations,...		$206,864.44	
Expenditures,....	$191,674.81		
Reserved for coal not yet delivered,.....	10,555.20	202,230.01	
Balance unexpended,		$4,634.43	

SCHOOLS.—MAINTENANCE.

School	Property Improvement and New Equipment	Electrical Work	Heating and Plumbing	Painting and Glazing	Roofs and Gutters	General Maintenance Expenses	Totals
Acushnet Avenue,	$1,088.84	$83.84	$87.96	$103.80	$21.83	$284.44	$1,670.71
Alden Street,		32.80	5.60	37.47	48.57	57.44	181.88
Armory Street,	653.25	56.07	48.34	460.07	29.38	120.76	1,367.87
Barrows,		28.50	202.41	65.28	3.99	144.18	444.36
Boston Road,	18.00	20.20	126.42	47.73		85.41	297.76
Brightwood,		102.73	185.67	213.36	39.07	205.31	746.14
Buckingham,	140.99	102.50	277.11	164.91	395.96	289.44	1,370.91
Carew Street,	101.03	23.20	188.34	369.33		238.26	920.16
Carlisle (unoccupied),						3.60	3.60
Central Street,	166.68	50.35	205.41	376.39	118.37	248.89	1,166.04
374 Central Street,		4.96	37.01	183.09	71.52	44.36	340.94
Charles Street,	247.32	17.89	115.48	.70		59.59	440.98
Chestnut Street,	872.89	191.78	489.43	228.43	467.00	566.04	2,815.57
Dry Bridge,			10.65			55.69	66.34
Eastern Avenue,		6.25	117.41	33.04	2.77	34.59	194.06
East Union Street,	427.81	47.49	132.12	101.02		226.85	935.29
Five Mile Pond,	1,324.02		33.00			136.44	1,493.46
Forest Park,	237.19	226.21	148.40	73.34	52.07	620.41	1,357.62
Glenwood,		4.46	38.74	3.45		2.40	49.05
High—Central,	112.42	306.01	891.89	528.74	283.26	356.06	2,478.38
High—Commercial,	144.00	301.00	409.33	218.86	57.20	225.15	1,355.54
High—Technical,	18.94	395.92	605.79	530.09	35.81	684.55	2,271.10
Homer Street,	581.68	131.47	39.41	39.24	84.89	52.98	929.67
Hooker (old),						92.10	92.10
Hooker (new),	894.85	385.57	183.52	296.37		259.82	2,020.13
Howard Street,	229.34	118.74	276.39	400.84	56.53	511.60	1,593.44
Indian Orchard Grammar,	30.20	113.21	162.67	185.18		421.92	913.18
Indian Orchard Primary,	113.26	12.90	5.43	64.02		144.31	339.92
Jefferson Avenue,	376.23	72.61	80.18	187.95		348.98	1,065.95
Kensington,	11.30	33.07	148.52	69.82	71.98	176.50	511.19
Liberty,		21.53	4.33	30.75		150.69	207.30
Lincoln,	916.23	162.54	177.78	36.78	8.50	348.21	1,650.04
Rushville,			31.59	79.04		60.94	171.57
School Street,		2.60	109.53	91.51		63.33	266.97
Sixteen Acres,			8.90	1.70		35.29	45.89
State Street,	180.58	95.55	326.59	176.08	27.14	437.69	1,243.63
Strickland,	120.91		31.06	6.85	54.06	190.11	402.99
Sumner Avenue,		34.89	24.48	48.43	3.06	294.06	404.92
Tapley,	30.20	16.73	68.74	153.66	181.69	503.19	954.21
Vocational,		172.42	128.03	36.63		179.90	516.98
47 Vernon Street,						46.58	46.58
Washington,	593.96	59.16	106.85	202.61		329.91	1,292.49
White Street,		71.64	274.86	49.00	3.35	185.30	584.15
William Street,	376.82	103.84	163.76	979.65	34.43	369.46	2,027.96
Worthington Street,	19.50	41.11	480.97	155.44	277.65	522.75	1,497.42
	$10,028.39	$3,651.74	$7,190.10	$7,030.65	$2,430.08	$10,415.48	$40,746.44
					Carried forward,		$40,746.44

Brought forward			$40,746.44
Emery Street Shop and Storehouse:			
Labor and materials on building		$134.06	
Labor and materials on equipment		96.40	
New equipment		66.00	
			296.46
Hooker School—Grading			420.96
Hooker School—Work on old furniture			824.08
Washington School—Work on new furniture			475.90
Portable Houses:			
Forest Park School			859.96
Homer Street School			1,099.87
Indian Orchard Primary School			225.38
Care of rented property			36.56
Carfares			184.35
Tools			206.03
Vacations and other undistributed time			1,031.92
Total expenditures			$46,407.91
Appropriations		$48,371.51	
Expenditures	$46,407.91		
Reserved for orders	379.90	46,787.81	
Balance unexpended		$1,583.70	

MUNICIPAL GROUP BUILDINGS.

Custodian's salary		$1,539.76
Administration Building:		
Care of building and grounds	$17,803.39	
Telephone service	3,735.75	
Express and freight	31.35	
Light and power	2,061.21	
Cleaning and toilet supplies	1,287.76	
Laundry	235.53	
Repairs to building	1,304.77	
Repairs to equipment	1,161.62	
Property improvement	2,737.31	
New equipment	1,790.20	
		32,148.89
Auditorium:		
Care of building and grounds	$5,866.41	
Light and power	1,640.43	
Cleaning and toilet supplies	308.46	
Care of organ	360.00	
Moving seats	372.55	
Repairs to building	2,524.17	
Repairs to equipment	727.86	
New equipment	198.06	
		11,997.94
Campanile:		
Care of building and grounds	$533.00	
Chime ringer	362.19	
Care of clock	360.00	
Light and power	251.84	
Repairs to building	122.76	
Repairs to equipment	43.84	
New equipment	113.70	
		1,787.33
Sanitary:		
Care of building and grounds	$5,049.29	
Cleaning and toilet supplies	1,043.58	
Laundry	336.54	
Repairs to building	159.04	
Repairs to equipment	181.66	
		6,770.11
Total expenditures		$54,244.03
Appropriations	$54,722.28	
Expenditures $54,244.03		
Reserved for orders 375.00		
	54,619.03	
Balance unexpended	$103.25	

MUNICIPAL HEATING PLANT.

Salaries, engineers and firemen			$9,732.72
Electricity for lighting			192.84
Fuel			8,738.91
Other operating supplies			313.32
Repairs to building			507.67
Repairs to equipment			599.02
New equipment			356.05
Total expenditures			$20,440.53
Appropriations		$20,611.72	
Expenditures	$20,440.53		
Reserved for orders	84.00		
		20,524.53	
Balance unexpended		$87.19	

MILITIA RIFLE RANGE.

Caretaker			$312.00
Taxes and water rent			155.70
Insurance			32.88
Miscellaneous repairs			17.88
Total expenditures			$518.46
Appropriations		$680.00	
Expenditures		518.46	
Balance unexpended		$161.54	

Respectfully submitted,

HIRAM L. DORMAN,

Superintendent of Public Buildings.

FIRE COMMISSIONERS

BOARD OF FIRE COMMISSIONERS.

	Term Expires.
WILLIAM W. TAPLEY, *Chairman*,	1st Monday in May, 1923
CHARLES B. HITCHCOCK, *Secretary*,	1st Monday in May, 1924
EDWARDS O. DAVIS,	1st Monday in May, 1921
THOMAS J. SHERIDAN,	1st Monday in May, 1922

CHARLES A. ALLBE, Alderman, and Chairman of the Fire Department Committee of the City Council, ex officio.

BOARD OF FIRE CHIEFS.

Chief of the Department,	WILLIAM H. DAGGETT
Deputy Chief,	EVERETT A. KIMBALL
District Chief,	BURTON STEERE
District Chief,	JOHN R. GRAVES
District Chief,	ARTHUR H. STRONG
District Chief,	CLARENCE E. GESNER

Superintendent of Fire Alarm Telegraph Bureau, HERBERT H. BERRY

REPORT

OF THE

BOARD OF COMMISSIONERS OF THE FIRE DEPARTMENT

SPRINGFIELD, MASS., December 27, 1919.

To His Honor, the Mayor, and Members of the City Council.

GENTLEMEN:—If review of the fiscal year 1919 reveals little of actual accomplishment in affairs of the Fire Department we feel the period may nevertheless go on record as one of prime importance in that it marks Springfield's initial experience with the Two Platoon system of fire protection.

The fact, stated in the accompanying report by the Chief of the Department, that requests from cities throughout the country have been and are still being received almost daily at the Headquarters office, for information concerning the operation of this Department under the Springfield Two Platoon ordinance serves, to a certain extent, to indicate the importance of the step taken by this Commission when, somewhat over a year ago, it was determined, with the approval of the Mayor and City Council, to place the Department under the Two Platoon system.

Although accomplishment of the original intent along the lines laid down in the Springfield Two Platoon ordinance has been made impossible through adoption of the new State Two Platoon law by the voters in the recent election we feel that the year's experience with the system under the ordinance will prove of much advantage and will enable Springfield's Fire Department more readily to adapt itself to conditions under the new law than will prove the case in communities where the system is for the first time introduced under this law. We share with the Chief of the Department the opinion that in some respects the Springfield Two Platoon ordinance is superior to the State Two Platoon law and, although on and after February 2, 1920, the ordinance becomes inoperative in the city of its origin, it is gratifying to us to know that in principal cities of other states

ordinances, either identical with or modeled closely to its lines, are in successful operation, to the mutual benefit of both taxpayers and firemen.

Of the radical changes imposed by the new law we are principally concerned with that relating to Fire Prevention. We regard it as of vital importance that the people of Springfield be thoroughly acquainted with the facts in this connection. Under the Springfield Two Platoon ordinance members of the off-shift platoon were required to make inspections of fire hazards, each man assigned to such duty devoting not more than five hours per month to the work. In this manner the functions of a Fire Prevention Bureau were discharged without additional cost to the City. Under the new law members of the off-shift platoon are, however, prohibited from doing this work and the City is confronted by the necessity of making choice of three alternatives: establishment of a separate Fire Prevention Bureau to be maintained independently of the Fire Department; increase of the present membership of the Department, enabling continuance of fire inspections by firemen under the supervision of the Chief of the Department or some officer delegated by him, as a portion of fire duty, or entire abandonment of these inspections and all efforts at Fire Prevention.

We do not believe that in the face of the movement in favor of Fire Prevention, now general throughout the country, the progressive citizens of Springfield will for a moment sanction the last named alternative and, throwing all precaution to the winds, abandon all fire preventive methods. Choice lies therefore between the other alternatives. The first of these, while practically certain to become at some later day an absolute necessity, is not regarded as such at the present time by this Commission. Also, it has the disadvantages of entailing great expense and of probably removing such supervision from the Fire Chief by whom, in the opinion of the members of this Commission, such supervision and control of Fire Prevention methods should properly be exercised. We are, therefore, forced to adoption of the second alternative as the best means to be pursued here in Springfield.

In this connection we respectfully call attention to the fact that reestablishment of the membership of the Department by ordinance will be necessary on or before February 2, 1920, when the new State Two Platoon law becomes effective, as that law provides in Section 5, that "all ordinances or by-laws, or parts thereof, affecting the number that may be appointed as members of its fire-fighting force, or the meal hours or days off of the fire department of any city or town which accepts the provisions of this act are hereby repealed."

Whether provision is or is not made for continuation of Fire Prevention measures in this city we desire to urge upon you the advisability of increas-

ing the membership of the Department because of the benefit certain to result during the vacation period when, with a sufficient force of permanent men, it will no longer be necessary, as now, to fill the places of members absent on vacations with inexperienced substitutes, a course amounting to lowering the Department's standard of efficiency during a period when many alarms are each season received and one, that if followed, is likely to some day prove extremely poor economy.

Also, the Department stands badly in need of the services of two additional District Chiefs. Coincident with installation of the Two Platoon system a year ago the number of District Chiefs in the service was increased from two to four but the new system served to defeat the end sought through their appointment as their services were immediately divided, through supervision of the respective platoons in the districts to which they were assigned, leaving the Department, in the matter of additional service such as rendered by these officers, exactly where it was with but two District Chiefs under the continuous service system.

Two of the districts into which the city is divided by the Department for fire supervision purposes are much too large when it is recalled that each is actually at all times under the supervision of but one man, as tours of duty by the District Chiefs are, under the Two Platoon system, identical with those of the members of the uniformed force.

Another need resulting from adoption of the Two Platoon system is that of a permanent Drill Master. Obviously the work of this official, generally regarded as essential to the efficiency of every fire department, cannot, under the new system, be performed as heretofore, by an officer giving to it part of his time only, as his time is so divided by the system as to render this course impracticable. The work is of such a nature and of such importance that we feel it should not be intrusted to an officer below the rank of Captain and we recommend that provision for such an appointment be made.

It is with the foregoing needs of the Department in mind and in the knowledge that its work, keeping pace with the development of the city, has simply reached the point where it may not, with due regard for public safety, longer be performed by a comparatively inadequate force, that we respectfully recommend that the membership of the Fire Department be re-established by ordinance at 319 members. The present membership of 274 is classified as follows:—

Chief of the Department	1
Deputy Chief	1
District Chiefs	4
Superintendent of Fire Alarm Telegraph Bureau	1
Assistant Superintendent of Fire Alarm Telegraph Bureau	1
Superintendent of Repairs	1
Captains	21
Lieutenants	23
Engineers of motor pumping engines	5
Hose and laddermen	206
Fire alarm operators and linemen	6
Mechanics	2
Bookkeeper	1
Clerk	1
Total	274

During the period of the war strict observance of the demands of patriotic economy impelled this Commission to refrain from recommendation of certain housing facilities of which the Department stood, and still stands, ir great need. From the standpoint of saving in dollars and cents the situation is not yet much improved but conditions at certain of the stations have reached a point beyond which we feel it would prove but false economy to continue without making the changes desired. In this connection we call your attention to the fact that the State law requires that concrete apparatus floors be installed in fire stations during 1920. Therefore, we take this occasion to announce our intention of submitting to the City Council of 1920 the following requests:—

1—That a special appropriation be placed at the disposal of this Commission with which to purchase a site in the general locality of the present Chestnut Street Fire Station and erect thereon a modern fire station, replacing the present antiquated, dilapidated, and unsanitary structure serving as quarters for Hose Co. No. 7 and Squad Co. A.

2—That a special appropriation be placed at the disposal of this Commission with which to effect needed changes in the living quarters at the Mill Street Fire Station, where changes for the better in the housing of apparatus are now nearing completion.

3—That a special appropriation be placed at the disposal of this Commission with which to install a concrete apparatus floor at the Oakland Street Station, replacing the old wooden floor now there; also, with which to complete necessary changes in the apparatus exits, by widening one front doorway.

4—That a special appropriation be placed at the disposal of this Commission with which to install a concrete apparatus floor at the Armory Street Fire Station and possibly to make other needed changes there.

Even in these days of high prices no person familiar with conditions at the Chestnut Street Station can fairly expect our recommendation for new quarters in that neighborhood to be qualified by any statement suggestive of apology. For the benefit of those unfamiliar with the situation it may, however, be stated that even if the projected extension of Taylor Street, which now seems likely to mature, should not render absolutely necessary a new fire station in this neighborhood, that step is rendered just as necessary by the condition of the present building, continued use of which as a fire station, will, in the opinion of this Commission, constitute an injustice alike to men now quartered there, to the Fire Department, and to the taxpayers.

In the expectation that Taylor Street would each year be extended no major repairs have been made upon this station for many years and, in addition to being small and otherwise unsuited to the needs of a fire station in this important section of the city, it is now in a condition where no amount of repairs will make it suitable for permanent use.

Alterations bettering conditions for housing apparatus at the Mill Street Station have progressed well and will probably be finished about the first of the year. There remains, however, much to be done at this station in the way of improving the upper floor and rooms used by the men. This work should follow that now in progress. Completely remodeled along the lines we have in mind this station will rank with others in the downtown section of the city in accommodations for men and apparatus and will serve the needs of that portion of the city for several years to come. The changes there, with those recommended on both the Oakland and Armory Street Stations and a new station for the Chestnut Street section will take care of the downtown housing needs of the Department for an indefinite period.

In thus providing for the needs of the business and other highly developed portions of the city in this matter of satisfactory fire stations we are not unmindful of the needs of other sections which are also developing with great rapidity. We have especially in mind that portion of the city of which the "X" or junction of Dickinson Street with Belmont and Sumner Avenues is the center; also, East Springfield.

In the opinion of this Commission the time has arrived when, in the interests of adequate fire protection, fire stations, each equipped with satisfactory apparatus, should be located in each of these localities. Realizing, however, that present prices of building materials and fire apparatus on such a scale are practically prohibitive this Commission does not propose to advance at this time the recommendations the needs suggest. Feeling, nevertheless, that the very development which is daily

increasing these needs is working, through increasing land values, to add to the difficulty of their ultimate realization, we believe steps should be taken to acquire sites upon which the needed fire stations may, at a more propitious time, be erected. For that purpose we shall request of the City Council of 1920 special appropriations in amounts sufficient to enable us to purchase in each of the localities named a site suited for use as the location of a fire station, with a view, in each instance, to its relation to the present and probable development of the sections of the city to be served.

The need, stated in the report of this Commission last year, for a new motor pump with which to replace an unsuitable one at the Armory Street Fire Station, still exists. Although, as previously stated, we have clearly in mind the present high prices of fire apparatus, we cannot shut our eyes to the element of danger existing in the failure to have in operation at this station a reliable, up-to-date motor pump and, rather than personally assume the responsibility involved through failure to provide this piece of apparatus, we recommend the purchase of a new motor pump, at an approximate outlay of $12,000, to be located at this station. A certain amount derived from disposition of the defective pump would, of course, revert to the City Treasury, serving to decrease the net expenditure, should the purchase of a new pump be authorized. Including this piece of apparatus, which we wish to supplant with a new one, the City has at the present time forty-one motor pieces in service, classified as follows:—

Hose wagons	15
(14 combination hose and chemical, one spare.)	
Ladder trucks	8
(6 aerial, 2 city service. Of these 3 are electric-driven; 3, gasoline-driven; 1, electric tractor-drawn; 1, gasoline tractor-drawn; the latter, spare.)	
Pumping engines	5
(gasoline triple combination.)	
Water tower	1
(gasoline tractor-drawn.)	
Auxiliary squad cars	2
Chiefs' cars	6
(Chief of Department, 1; Deputy Chief, 1; District Chiefs, 4.)	
Fire Alarm service	2
(1 truck, 1 runabout.)	
Superintendent of Repairs (runabout)	1
Runabout (spare)	1
Total	41

At the risk of being considered obstinate we avail ourselves of this opportunity of again going on record as unitedly and strongly in favor either of re-establishing the central fire whistle or of installing a signal of equivalent efficiency. Our previous belief in the efficacy of such a signal has been strengthened by developments in connection with the recent fire in the Brunswick Building, so-called, in lower Worthington Street. In this case a telephone alarm was received at the Headquarters Station. As the alarm conveyed the impression that the blaze was of small proportions one piece of apparatus was dispatched from that station, to be followed a few moments later by another piece, sent on receipt of another telephone call, which, however, like the first, failed to afford any idea of the proportions or possibilities of the fire. It is a singular fact that, although in most cases a "bell" or box alarm would have been sounded for a chimney fire, none of the hundreds of people assembled at the scene of this fire within an incredibly short space of time, thought to sound such an alarm.

When the commanding officer at the scene of the fire, quickly realizing its possibilities, ordered a bell alarm sounded, the junior officer, to whom he gave the order for transmission, was informed that such an alarm had already gone in. This, however, proved not to be the case and several valuable moments were lost before the mistake was discovered and the bell alarm was sounded, calling out the apparatus responding to such alarms in that section of the city.

We cite this case not by way of accounting for loss in connection with this particular fire, as the loss would probably have been very heavy even had the person sending in the original telephone alarm sent in a bell alarm instead, the fire plainly having obtained great headway before it was discovered.

We call your attention to this case because it illustrates in very forcible manner the value of the fire whistle or some signal of equal effectiveness and clearly demonstrates what may happen in its absence. Had the central fire whistle been in operation, as formerly, no doubt would have existed as to whether a bell or signal box alarm had really been sent in. The blasts of the whistle, certifying receipt of the alarm, although deemed discordant by many, would, for a few moments at least, have been counted music by anxious officials of this Department at the scene of that fire.

Although we place implicit confidence in every officer of this Department and in the uniformed men as a body, we cannot shut our eyes to the possibility that circumstances such as those from which developed the incident in connection with the Brunswick Building fire may some day, in the absence of a central fire whistle or other equally effective signal, bring to Springfield more dire results.

Also, we believe a central fire whistle or other signal of equal effectiveness will some day be found to be a real need in summoning members of the off-shift platoon to aid at a fire of large proportions, now that the Department is operated under the Two Platoon system. Under the State law, effective February 2, 1920, Department members are not required to have telephones in their homes, as proposed under the Springfield Two Platoon ordinance. While many have them the larger number have not and at best, summoning members of the off-shift platoon to duty by telephone must prove a lengthy procedure at a time when every second counts. Likewise the value of the whistle or other equally effective signal, for emergency use, would doubtless have been demonstrated in assembling our State guardsmen for Boston police strike duty.

In view of the foregoing we feel that, as the body of men in whom is vested the fire protection of the City of Springfield, our duty is clear and we therefore respectfully recommend that a sum of money be placed at the disposal of this Commission with which to bring about operation of a central fire whistle, either by arrangement with some local corporation or establishment of a City plant; or installation of some other equally effective fire alarm signal.

Our recommendations of last season that provision be made by ordinance for employing some Springfield physician whose duty it shall be to respond to alarms, administering first aid to injured persons at the scene of a fire and that fire alarm signal boxes be located upon each building in the city used for school purposes, are respectfully renewed.

Summarized then, our recommendations upon the needs of the Department, as we see them, are as follows:—

MEMBERSHIP.

That the membership of the Department be re-established by ordinance at 319 permanent men, enabling the Chief of the Department to continue Fire Prevention inspections under the new Two Platoon law by using men for this work during their hours of City service; also enabling him to use permanent men rather than substitutes in the places of other permanent men absent from duty on vacations, sickness, or for other reasons not at variance with the Department Rules and Regulations.

That provision be made by ordinance for the appointment of two additional District Chiefs.

That provision be made by ordinance for the appointment of a Drill Master, with the rank of Captain.

STATIONS.

That a new station be erected on another site to take the place of the present unsanitary and inadequate Chestnut Street Station.

That alterations upon the Mill Street Station be completed by changes on the upper floor and in rooms used by the men.

That a concrete apparatus floor be laid and one apparatus exit enlarged at the Oakland Street Station.

That a concrete apparatus floor be laid and other changes made at the Armory Street Station.

That land be selected and acquired now for use later as the site of a fire station in the vicinity of the "X".

That land be selected and acquired now for use later as the site of a fire station in East Springfield.

APPARATUS.

That a motor pumping engine of 750 gallons capacity be purchased, replacing Engine No. 9, at the Armory Street Station, now disabled.

FIRE WHISTLE.

That a central fire whistle, or equally effective signal, be re-established, being operated either by arrangement with the owner or owners of some local private manufacturing plant or by a City-owned and controlled plant, as the interests of economy and efficiency may dictate.

MISCELLANEOUS.

That a Springfield physician be employed to attend fires for the purpose of rendering first aid to the injured.

That fire alarm signal boxes be installed upon all school buildings or buildings used for school purposes, within the city.

These recommendations are offered, not in any sense as representing the maximum of what might be wished for the Fire Department but as actually representing the minimum of what is essential to its efficient operation. In this connection permit us to call your attention to the fact that the recommendations come from a Commission privileged, without change of membership, to study the needs of the Fire Department for nearly two years. To this continuity of service, which has proved of such help in acquainting all members of this Commission with the detailed needs of the Department, must be added that extra attention demanded of us

through installation of and operation of the Department under the Two Platoon system.

While, to a certain extent this report and the recommendations herein contained are founded upon information from and requests by the Chief of the Department and other officials we can assure you that each recommendation is also founded on the personal observations of each member of this Commission and we beg to remind you, gentlemen of the City Council of 1919, and those of the City Council of 1920, that it yet remains to be demonstrated that this Commission has ever asked at the hands of the City anything not absolutely essential to the proper conduct of that highly important branch of municipal service, the Fire Department.

Respectfully submitted,

WILLIAM W. TAPLEY, *Chairman,*
CHAS. B. HITCHCOCK, *Secretary,*
EDWARDS O. DAVIS,
THOMAS J. SHERIDAN,
C. A. ALLBE,

Board of Fire Commissioners.

REPORT

OF THE

CHIEF OF THE DEPARTMENT

SPRINGFIELD, MASS., December 8, 1919.

To the Honorable Board of Commissioners of the Fire Department.

GENTLEMEN:—Up to within a few weeks ago I had confidently expected to be able to assure you in this report of the completed establishment of the Department under the Two Platoon system, a task undertaken on the first of January of the current year. This, however, I cannot do and you will understand that my failure to do so is in no sense attributable to lack of endeavor on the part of officials of the Fire Department but to action by the voters in the recent State election, as a result of which the new State Two Platoon law is, on February 2, 1920, to be substituted for our present Two Platoon ordinance. So at this date, although the Department is operating under the Two Platoon system, I am unable to acquaint you with the permanent details of that method of operation, as these are not yet established.

Such rules and regulations as have, during the year, been submitted to you for indorsement must again be submitted, following complete revision, and each must in turn be tried out, as those formulated for use under the ordinance were being tried out, before receiving your final indorsement. The situation is complicated and it will probably require the greater part of the year 1920 to get the Department smoothly operating under the new law. There is reason for gratification in the fact that rules and regulations were not issued in printed form at the time the Department was placed under the Two Platoon system in January, as to have done so would have resulted in great expense for revision of many to make them conform to developments under the City Two Platoon ordinance, only to have finally been obliged to entirely discard them, as now, for new rules, conforming to the Two Platoon law.

Principal points on which the Two Platoon law differs from the Springfield Two Platoon ordinance are, as you will doubtless recall:—

1—Establishment of shift periods on every third instead of every fourth day.

2—Failure to make provision for fire inspections by members of the off-shift platoon.

3—Provision that members of the off-shift platoon shall be called on for emergency duty only in event of a "conflagration."

4—Failure to provide authority enabling an officer in command to hold at the scene of a fire in progress at the shift period, the members of the out-going platoon until the arrival there of members of the in-coming platoon, who may legally report at the respective company quarters.

It is to be hoped that some, if not all, of these defects in the law will be remedied by the Legislature, but here in Springfield, as a result of one of these shortcomings, we find ourselves confronted by a crisis demanding immediate action. I refer to the failure to make provision for continued fire inspections by members of the off-shift platoon. This work, explicitly provided for by the Springfield ordinance, is as strictly prohibited by the new law. Under the Two Platoon ordinance and previously, under the old continuous service system, this work, so essential to effective Fire Prevention, has been done by our men without additional expense to the City. The Department is without funds to pay for such work. On the other hand, to allow it to cease altogether is simply to invite disaster, to take no account of the moral effect were Springfield allowed to lag in a field of activity wherein the whole country, under the leadership of such organizations as the National Board of Fire Underwriters, the National Fire Protection Association, and the International Association of Fire Engineers, is daily being stirred to fresh endeavors.

While, for reasons of economy, I would not go the length of recommending that Springfield at this time assume the expense of maintaining a Fire Prevention Bureau, I cannot too emphatically impress upon you the fact that unless some funds are forthcoming wherewith to pay for the inspections which are the basis of all Fire Prevention methods, these inspections must and will cease on February 2, 1920, as, on and after that date, the Chief of the Fire Department is powerless to command members of his department to perform such inspections on their own time. Affording you some idea of the extent of these inspections I may state that 28,412 were made by members of the Department during the fiscal year ended November 30, the men who made them being allowed under the ordinance to give but five hours each month to the work.

Closely related to this problem of providing for continuance of the inspections are two other matters to which I invite your attention before attempting a solution of our difficulties. At present we are obliged to

hire, during each vacation period, a number of substitute firemen to fill the places of men absent on vacations. For the most part, these substitutes, drawn from the eligible lists of the Civil Service Commission, are men who have seen little, if any, real fire duty. Their services, compared to those of the trained firemen for whom they are substituting, represent a real financial loss to the City, especially in the case of a big fire. Again, as you gentlemen know, the Department has for over a year stood in need of the services of two additional District Chiefs. This need is daily increasing and is bound to increase with the supervision, demanded under the new Two Platoon law.

So, at the outset of the new fiscal year we find ourselves confronted by this triangle of departmental needs. I have made them, individually and collectively, the subject of much thought and have arrived at the conclusion that the most satisfactory adjustment of all of them, alike from the standpoint of the City and of the Department, lies in an increase of our permanent force. Therefore, I respectfully recommend that the permanent membership be increased by appointment of forty-four men, two of whom shall fill vacancies in the uniformed rank resulting from creation of two additional District Chiefs and subsequent promotions, the remaining forty-two to be assigned, two to each of the twenty-one companies in the service; the hiring of substitute firemen, for any reason, thereafter to cease and Fire Prevention inspections to continue, being done by members of the working shift especially assigned to that task.

It is only by increasing the membership of all companies that this inspection work can be continued if it is to be done by members of this Department on the City's time, as the present membership of the companies represents the minimum at which each platoon can safely man a ladder truck, engine or hose wagon. Indeed, it is even now necessary to draft men from the Squad companies when it becomes necessary to raise a 65-foot ladder or lay two or more lines of hose. Additional permanent men, making possible not only the Fire Prevention inspections under the supervision of the Fire Department but also taking the places of inexperienced and unreliable substitutes during the vacation periods offer, it seems to me, the most economical solution of the problem to be worked out under the new Two Platoon law and I trust you gentlemen may share this view.

I have brought this matter to your attention in considerable detail as it is one of such recent development that I fear its far-reaching and vital concern to the welfare of the City may, as yet, be unfamiliar to you. The sum of $16,000 now expended annually in the hire of substitutes during the vacation period would be saved through appointment of the additional

permanent men as proposed and the total net increase in the Department expenditures for the additional men and District Chiefs would amount approximately to $65,000, in return for which we would be able, as I have outlined, to carry on inspections necessary to Fire Prevention work; acquire the services of permanent men in place of substitutes and also acquire the services of the sorely needed additional District Chiefs. The return does not seem disproportionate, especially in view of the fact that unless this course is followed Springfield must either establish a Fire Prevention Bureau, costing annually as much if not more, or the City must take the risk of unlimited loss through elimination of all Fire Prevention methods.

With the other Departmental needs, principal among which are a new station to replace the present Chestnut Street Station, completion of the alterations begun at the Mill Street Station, concrete apparatus floors in both the Oakland Street and Armory Street Stations, alterations in one of the apparatus exits at the Oakland Street Station and other changes at the Armory Street Station, in addition to a new motor pump to replace that now at the latter station, you gentlemen are familiar and it is not my purpose to enlarge upon them here.

From the standpoint of fire loss the fiscal year ended November 30, 1919, has been an improvement upon 1918. We have been called to answer less alarms, the total being but 908 and the total loss but $261,361. Classified, the alarms received during the year were as follows: bell, 232; telephone, 540; still, 118; thermostat, 10; A. D. T., 8. Sixty-four false alarms were received and fifty needless. The usual tables showing the valuation, insurance and loss, also classification of losses, causes, etc., form a part of the report. The increased expenditures, amounting to $488,241.40 from a total of $489,353.34 appropriated for the maintenance of the Department, are largely chargeable to operation under the Two Platoon system and to changes in the rate of pay.

In my opinion adoption of the Two Platoon system has been of benefit to the Department in many ways and although I am by no means in sympathy with certain features that have found their way into the new State Two Platoon law I would under no circumstances advocate return to the old continuous service system of fire fighting. In this connection it gives me pleasure to inform you that Springfield's experience with the Two Platoon system under our City ordinance seems to have attracted general attention throughout the country, as this office has been during the year, and still is, in receipt of requests for information from cities in all parts of

the United States, seeking to establish their Fire Departments under the Two Platoon system and to operate them along the lines followed successfully by Springfield's Department under Springfield's ordinance.

Respectfully submitted,

W. H. DAGGETT,
Chief.

REPORT

OF THE

SUPERINTENDENT OF THE FIRE ALARM TELEGRAPH BUREAU

SPRINGFIELD, MASS., December 10, 1919.

To the Honorable Board of Commissioners of the Fire Department.

GENTLEMEN:—During the year past we have remodeled twenty-eight of the older type fire signal street box and are pleased to state that only twenty-two of the older style now remain. We now have seven of our seventeen box circuits equipped throughout with positive non-interfering boxes of the successive type.

This year we should be able to clean up all the older type street box.

As to new boxes, six were installed during 1919 and we will need at least six new boxes for new locations the coming year.

In the prescribed district for 1919 for the removal of overhead wires to underground, comprising in part Heywood, Warwick, Liberty, and Armory Streets, the overhead conductors of our fire alarm system have been placed underground, about 3,500 feet of lead cable being employed to complete the work.

At the Indian Orchard station the old wood switch and charging board has been replaced with a slate board, several switching devices and recording instruments have been added, making the outfit more safe and up-to-date, the above work being done by this Department.

The various box circuits are mostly overhead and the line is in first class condition. Two new boxes could be used to good advantage in this section this year.

Respectfully submitted,

HERBERT H. BERRY,
Superintendent.

CLASSIFICATION OF LOSS

INVOLVED IN FIRES OF THE FISCAL YEAR ENDED NOV. 30, 1919.

	*$10 or Less.	Between $10 and $50.	Between $50 and $100.	Between $100 and $1,000.	Between $1,000 and $5,000.	Between $5,000 and $10,000.	Between $10,000 and $20,000.	Over $20,000.	Total Alarms.
Dec.	45	6	5	13	2	..	..	..	71
Jan.	50	3	4	10	5	..	..	..	72
Feb.	63	4	4	11	3	1	..	..	86
March	79	8	2	9	3	..	..	..	101
April	81	4	2	10	.	..	..	..	97
May	51	3	4	9	2	..	..	2	71
June	58	5	6	7	5	..	..	..	81
July	51	4	1	6	..	1	..	..	63
Aug.	43	1	4	4	3	..	..	..	55
Sept.	26	8	..	3	2	1	..	1	41
Oct.	70	3	3	7	2	..	2	..	87
Nov.	64	5	9	5	..	..	..	..	83
Total	681	54	44	94	27	3	2	3	908
1918	929	64	66	141	37	2	2	3	1,244
1917	793	67	43	100	34	5	1	1	1,044
1916	667	48	42	110	40	2	2	..	911

*Includes false and needless alarms answered.

STATEMENT OF
ALARMS, VALUATION, INSURANCE AND LOSS
Involved in Fires of the Fiscal Year Ended Nov. 30, 1919.

	Alarms						Value	Insurance	Loss				
	Bell	Telephone	Still	Thermostat	A.D.T.	Total			Insured	Uninsured	Total	In Building Where Fire Originated	By Exposure
Dec.	24	37	10			71	$413,000.00	$346,875.00	$8,225.17	$183.00	$8,408.17	$8,408.17	
Jan.	20	41	8	1	2	72	361,355.00	314,010.00	16,011.85	2,271.71	18,283.56	18,187.56	$96.00
Feb.	19	55	12			86	1,464,300.00	1,128,750.00	21,502.96	320.00	21,822.96	21,822.96	
March	18	69	12	1	1	101	658,135.00	574,500.00	10,400.86	2,271.25	12,672.11	12,672.11	
April	23	56	16	2		97	143,110.00	89,300.00	3,223.75	350.00	3,573.75	3,413.75	160.00
May	15	47	6	1	2	71	1,167,100.00	1,033,395.00	55,247.47	20,181.27	75,428.74	75,293.74	135.00
June	18	49	14			81	194,525.00	152,950.00	15,545.10	1,594.20	17,139.30	16,819.30	320.00
July	21	37	5			63	5,448,490.00	5,362,600.00	10,463.25	458.00	10,921.25	10,921.25	
Aug.	10	34	10	1		55	192,100.00	126,705.00	7,113.92	1,833.00	8,946.92	8,946.92	
Sept.	15	21	4		1	41	421,126.50	241,775.40	35,651.23	949.55	36,600.78	36,600.78	
Oct.	25	46	12	1	3	87	437,377.50	142,535.76	16,517.92	18,224.69	34,742.61	34,742.61	
Nov.	24	48	9		2	83	487,682.46	339,835.00	7,400.78	5,420.36	12,821.14	12,721.14	100.00
1919	232	540	118	7	11	908	$11,388,301.46	$9,853,231.16	$207,304.26	$54,057.03	$261,361.29	$260,550.29	$811.00
1918	346	711	168	6	13	1244	$12,706,227.83	$10,427,759.37	$314,058.85	$16,088.85	$330,147.70	$328,122.32	$2,025.38
1917	287	603	127	12	15	1044	4,878,751.74	4,019,121.09	168,040.57	13,755.46	181,796.03	180,170.10	1,625.93
1916	308	465	116	9	13	911	10,204,850.60	8,821,015.14	170,646.47	7,299.92	177,946.39	175,272.33	2,674.06
1915	339	467	113	5	14	938	5,593,339.60	4,704,693.27	198,148.00	9,358.20	207,506.20	206,753.62	752.58
1914	338	485	153	11	6	993	6,304,701.85	5,598,198.09	308,561.01	20,103.93	328,664.94	320,552.82	8,112.12

COMPARATIVE STATEMENT OF LOSS.

*Year	Alarms	Property Loss	Per Capita Loss
1871	21	$199,317.00	$7.46
1872	22	106,425.00	3.99
1873	48	191,107.00	7.16
1874	38	285,822.02	10.70
1875	57	476,961.45	15.36
1876	53	120,824.00	3.89
1877	32	74,071.00	2.39
1878	39	49,552.00	1.60
1879	33	36,706.70	1.18
1880	27	8,661.35	.26
1881	61	92,352.82	2.77
1882	73	60,232.06	1.81
1883	46	34,969.11	1.05
1884	54	30,755.34	.92
1885	48	39,241.91	1.04
1886	61	33,584.00	.81
1887	86	64,930.29	1.73
1888	79	177,577.19	4.73
1889	79	52,085.19	1.39
1890	92	33,864.99	.77
1891	141	201,126.00	4.55
1892	140	125,243.36	2.83
1893	147	397,531.03	9.00
1894	125	57,732.41	1.31
1895	128	43,311.74	.84
1896	141	57,206.60	1.11
1897	157	55,460.89	1.08
1898	171	235,981.79	4.58
1899	213	94,694.02	1.84
1900	222	62,157.70	1.00
1901	236	96,409.25	1.55
1902	248	149,931.33	2.42
1903	311	30,316.69	.49
1904	385	68,332.86	1.10
1905	424	208,451.58	2.83
1906	403	105,771.28	1.39
1907	498	535,549.74	7.05
1908	530	88,690.38	1.17
1909	675	75,701.81	1.00
1910	710	133,329.47	1.50
1911	729	397,714.08	4.47
1912	829	166,210.66	1.87
1913	1,033	264,165.72	2.97
1914	993	328,664.94	3.70
1915	938	207,506.20	2.02
1916	911	177,946.39	1.73
1917	1,044	181,796.03	1.51
1918	1,244	330,147.70	2.64
1919	908	261,361.29	2.01

*Fiscal year; December 1 to November 30 inclusive.

ALARMS ANSWERED

Hose Co. No. 1	91
Hose Co. No. 2	167
Hose Co. No. 6	62
Hose Co. No. 7	142
Hose Co. No. 10	151
Hose Co. No. 11	44
Hose Co. No. 12	64
Hose Co. No. 13	80
Truck Co. No. 1	85
Truck Co. No. 3	70
Truck Co. No. 6	46
Truck Co. No. 8	88
Truck Co. No. 10	100
Truck Co. No. 13	52
Engine Co. No. 3	97
Engine Co. No. 4	91
Engine Co. No. 5	97
Engine Co. No. 8	105
Engine Co. No. 9	57
Squad A	233
Squad B	307

CAUSES OF FIRES AND ALARMS

Accident with lamp	2
Backdraft (smoke)	11
Backfire	16
Bonfires	18
Brush, forest, grass, leaves	216
Burning meat (grease)	4
Careless smoking	41
Careless with benzine	1
Careless with candle	1
Careless with gasoline	20
Careless with matches	8
Careless with kerosene	2
Careless workmen	2
Children and matches	28
Chimney fires	27
Christmas tree	1
Clothing near stove	1
Defective chimney (flue)	10
Defective fireplace	1

Defective heating plant	1
Defective stovepipe (smokepipe)	2
Defective wiring	1
Dumping grounds	39
Dust on furnace	1
Electric flatiron	4
Electric wires	1
Escaping steam	1
Explosions	2
Exposure	1
False alarms	64
Fireworks	3
Flooded pilot light	1
Foul smokepipe (flue)	3
Friction of motor belt	1
Gas heater (stove) (plate)	1
Gas leak and lighted match	1
Gasoline	13
Heating varnish on oil stove	1
Hot ashes (coals) (cinders)	9
Hot fat (grease)	1
Hot oil	3
Hot tar	2
House wrecked by railroad train	1
Incendiary	3
Kettle of candy	1
Leaking carburetor	1
Leaking gasoline pipe	2
Leak in gas pipe (jet) (fixture)	7
Lightning	1
Lime	2
Malicious mischief	8
Mop on radiator	1
Needless alarms	50
Oil heater (stove)	6
Oil lamp	2
Oily waste	1
Out of city	1
Overheated furnace (heater) (boiler)	4
Overheated flatiron	1
Overheated gas coil	1
Overheated hot air flue	1
Overheated incinerator	1
Overheated japan oven	1
Overheated motor	4
Overheated pipe covering	3
Overheated steam pipe	1
Overheated stove (range)	7
Overheated stovepipe (smokepipe)	6
Papers on stove	1
Rags under sink	1
Rekindling of former fire	5
Rubbish in barrels	5
Rubbish in basement	14
Rubbish, miscellaneous	31
Sawdust	2

Second alarm	1
Short circuit	9
Sparks from chimney (stack)	7
Sparks from forge	2
Sparks from locomotive	1
Sparks from picker	3
Sparks from road roller	1
Sparks from rubbish fire	1
Spontaneous combustion	9
Stove rags	1
Trolly cars	13
Unknown	116
Waste near furnace	1
Wooden box on heater	1
Total	**908**

POLICE DEPARTMENT.

REPORT

OF THE

BOARD OF POLICE COMMISSIONERS

To His Honor, the Mayor, and the City Council of the City of Springfield.

GENTLEMEN:—The Board of Police Commissioners herewith submit to you their annual report covering the activities of the department for the year ending November 30, 1919.

In May, His Honor, the Mayor, appointed Silvio Martinelli a police commissioner to succeed Joseph G. Roy, whose term expired. On July 8, 1919, D. J. Brown, M.D., a member of the Board for four years, died after a brief illness, and the Mayor, on July 14, appointed Phelps Brown to fill the vacancy, leaving the personnel of the Board for the remainder of the year, Charles F. Spellman, Chairman, Silvio Martinelli, and Phelps Brown.

INCIDENTS OF THE YEAR.

The appropriation for the department for the year was $350,324.30. We have expended $342,128.31, leaving a balance of $8,195.99.

During the year, the City Council increased the compensation of all the members of the department, so as to bring the maximum pay of a patrolman to Five Dollars a day. This makes the compensation paid to our officers on a par with the current rate of pay for police officers throughout New England.

The discipline of the department throughout the year has been uniformly good.

There has been a notable falling off in the number of arrests this year. As compared with 1918 there were 1,362 less arrests, and there were 544 less arrests for drunkenness, principally accounted for since July 1.

EQUIPMENT.

The department is well-equipped with automobile apparatus. This service has demonstrated its efficiency and in order to keep down the cost

of upkeep we would recommend that, as heretofore, these cars be turned in in the spring for new ones, which will call for an item in our appropriation of perhaps $2,500; this is an economical measure.

DEATHS, RESIGNATIONS, AND RETIREMENTS.

On November 27, Maria E. Holley, a police matron, who had been in the service for seventeen years, died, and the Mayor appointed Katherine Sheehan to succeed her as police matron. The deaths of Commissioner D. J. Brown and Police Matron Maria E. Holley were the only deaths in the department during the year.

Nine members of the department resigned during the year to take up other occupations.

One officer was retired for disability.

RECOMMENDATIONS.

We would recommend to your Honorable Board that some reasonable regulation be formulated relative to the parking of automobiles on the streets in our business section. Lined up on both sides of these streets as they are during the day, they are an obstruction to traffic and a menace to lives and property in case of fire.

We must again call to the attention of your Honorable Board the urgent need of enlarging our present police headquarters building in order that the work of the police court in its various branches may be properly and efficiently conducted.

The report of the Chief of Police covering the work of the department for the year is attached hereto and is submitted as a part of this report.

In conclusion we desire to thank His Honor, the Mayor, and your Honorable Board and Judge Wallace R. Heady for the co-operation and support given the department throughout the year.

Respectfully submitted,

CHARLES F. SPELLMAN, *Chairman,*
SILVIO MARTINELLI,
PHELPS BROWN,
Board of Police Commissioners.

ANNUAL REPORT

OF

CHIEF OF POLICE

To the Board of Police Commissioners of the City of Springfield.

GENTLEMEN:—I herewith submit the Annual Report of the Chief of Police for the year ending November 30, 1919.

Respectfully submitted,

WILLIAM J. QUILTY,
Chief of Police.

CITY OF SPRINGFIELD, MASSACHUSETTS.

1919.

Population (estimated)	132,000
Area	39.90 square miles
Public streets	194.5 miles

The following is a schedule and valuation of the property in charge of the Police Department:—

Land	$63,433.00
Buildings	118,600.00
Signal system	15,000.00
Automobile equipment	6,000.00
Office equipment	3,500.00
Other equipment	8,000.00
Total	$214,533.00

APPROPRIATIONS, EXPENDITURES.

Appropriation		$350,324.30
Expenditures	$342,128.31	
Balance	8,195.99	
		$350,324.30

COMPOSITION OF FORCE.

Chief	1
Deputy Chief	1
Captain of Detectives	1
Captains	3
Detective Lieutenants	11
Lieutenants	2
Sergeants	13
Patrolmen, Grade A	125
Patrolmen, Grade B	14
Patrolmen, Grade C	11
Policewomen	2
Department Clerk	1
Clerks	2
Chauffeurs	6
Matrons	2
Telephone Operators	2
Superintendent of Signal System	1
Janitors	3

RETIRED.

Deputy Chiefs	2
Captain	1
Detective Lieutenants	2
Lieutenant	1
Sergeants	3
Patrolmen	6

NUMBER OF LICENSES ISSUED AND FEES COLLECTED DURING THE YEAR ENDING NOVEMBER 30, 1919.

34	auctioneers	$68.00
10	bowling alleys	20.00
227	express (364 wagons)	455.00
123	farmers' permits	30.35
98	fruits and vegetables	2,450.00
11	intelligence officers	22.00
220	jitneys	1,100.00
230	jitney operators	230.00
4	pawnbrokers	200.00
112	poolrooms	1,541.00
141	rag pickers	459.00
85	second hand dealers	170.00
9	street musicians	1.50
187	taxicabs	187.00
38	agents' licenses, Class I	190.00
37	used car dealers, Class II	185.00
7	motor vehicle junk licenses, Class III	35.00
	Lockup fees	93.15
	Miscellaneous sales	1,651.33
	Total	$9,088.33

TOTAL NUMBER OF DAYS LOST BY SICKNESS, ABSENCE, AND VACATION BY MEMBERS OF THE DEPARTMENT.

Total number on special duty	1,509
Total number on sick list	1,893
Total number on vacation	2,087
Total number on leave of absence	451
Total number without leave of absence	7
Total number days off	3,722

MISCELLANEOUS DUTIES.

Accidents reported	1,144
Buildings opened and secured	1,920
Defective streets reported	55
Defective sidewalks reported	144
Disturbances suppressed	14
Disorderly houses reported	20
Electric lights out	1,912
Fire alarms given	23
Fire alarms reported	164
Fires extinguished by officers	8
Intoxicated persons sent home	16
Lost children restored	103

Lights hung in dangerous places	4
Teams put up	8
Cases of destitution investigated	20
Number of posters censored	4,338
Approved	4,008
Disapproved	330

ACCIDENTS REPORTED BY POLICE OFFICERS

For the Year Ending November 30, 1919.

Accidental shooting	1
Aeroplane accident	1
Asphyxiation	4
Automobiles	876
Bicycles	21
Cave in	1
Choked to death	1
Drowning	14
Electrocution	2
Elevator	2
Explosion	1
Fainting	5
Falls	34
Falling objects	10
Fits	3
Heat prostration	1
Motorcycles	40
Ripper	1
Runaway horses	14
Steam railroads	5
Sudden deaths	2
Suicide, attempted	1
Teams	22
Trolley cars	81
Water main break	1
Total	1,144

An inspection of the records of these accidents shows that in 153 cases the pedestrian was to blame. There were 19 deaths from automobile accidents.

AUTOMOBILE SERVICE.

	White Police Van.	Knox Police Van.	Touring Car.
Regular runs	2,044	922	2,264
Emergency runs	167	17	16
Fire runs	55	9	4
Total runs	2,266	948	2,284

	Chief's Car.	Touring Car.	White Police Van.	Knox Police Van.	Total.
Miles run	9,863	10,816	5,157	1,963	27,799
Gasoline used, gal.	585	845	850	406	2,686
Oil used, gal.	28	20	43	15	106

Patrol Automobiles, twelve months ending November, 1919:—

	No. 1 Chevrolet.	No. 2 Chevrolet.	No. 3 Chevrolet.	No. 4 Ford.	No. 5 Ford.	Total.
Miles run	30,139	32,081	32,378	19,977	20,750	135,325
Gasoline used, gal.	2,062	2,054	2,254	1,467	1,526	9,363
Oil used, gal.	49	62	49	54	50	264

Tires and tubes for nine cars:—

	30 x 3	30 x 3½	34 x 4	35 x 4½	37 x 4	Total.
Tires	17	42	6	3	4	77
Tubes	7	30	0	3	2	42
Cost of tires	$231.03	$908.51	$246.54	$141.93	$240.80	$1,768.81
Cost of tubes	17.36	99.90		18.81	20.14	156.21

Cost of gasoline	3,018.49
Cost of oil	203.50
Gasoline, oil, tires, and tubes	$5,147.01

CHARGES ON WHICH ARRESTS WERE MADE.
CRIMES AGAINST THE PERSON.

	1915	1916	1917	1918	1919
Abduction	0	1	0	0	0
Assault and battery	152	152	213	182	133
Assault, felonious	11	0	0	0	0
Assault on officer	26	36	22	17	12
Assault with deadly weapon	18	14	24	25	17
Assault with intent to kill	3	2	1	8	1
Assault, indecent	2	1	1	8	3
Assault and robbery	1	7	2	0	4
Assault, attempt to rob	0	0	0	0	5
Manslaughter	3	2	2	3	0
Murder	2	1	2	2	2
Rape	3	1	3	5	6
Rape, attempt	1	2	1	1	1
Robbery	2	1	0	0	0
Threatening	1	5	2	2	1
	215	225	273	253	185

CRIMES AGAINST PROPERTY.

	1915	1916	1917	1918	1919
Arson	0	0	0	2	1
Breaking and entering	26	29	61	59	52
Breaking and entering, attempt	3	0	2	4	1
Breaking glass	5	9	13	10	10
Breaking into a letter box	0	1	0	0	0
Burning a building	2	0	0	0	0
Concealing leased property	0	6	1	1	1
Concealing mortgaged property	0	0	1	0	1
Defacing a building	0	0	0	0	6
Defrauding electric light company	0	2	0	0	0
Defrauding hotel	0	2	0	0	0
Defrauding an insurance company	1	0	1	0	0
Defrauding an insurance company, attempt	0	0	0	0	3
Destroying property	1	5	13	3	8
Driving away an auto	21	7	28	22	25
Driving away a team	2	0	0	2	0
Embezzlement	0	0	1	0	0
Evading railroad fare	4	2	3	4	12
Extortion	1	0	0	0	0
Fortune telling	4	2	0	0	1
Injuring personal property	0	0	7	0	0
Larceny	250	203	317	320	247
Larceny, attempt	6	1	4	3	3
Larceny from common carrier	3	3	13	15	9
Larceny from the person	2	2	2	6	8
Larceny from the person, attempt	1	0	1	0	0
Larceny in a building	12	3	8	19	6
Malicious mischief	7	3	9	9	11
Mortgaging leased property	1	0	0	0	0
Obtaining goods under false pretenses	0	1	0	0	0
Receiving stolen goods	10	8	19	12	16
Removing and concealing personal property	0	0	2	3	3
Retaining city library books	0	1	0	1	0
Selling leased property	0	2	1	2	0
Selling mortgaged property	1	0	0	3	0
Stealing a ride	0	0	3	0	0
Throwing missiles at autos	0	1	0	0	0
Trespass	22	23	22	13	11
Trespass of fowls	0	0	0	1	0
Unlawful taking	0	0	6	0	0
Uttering worthless checks	1	2	0	0	0
	386	318	538	514	435

CRIMES AGAINST THE PUBLIC ORDER.

	1915	1916	1917	1918	1919
Abandoning child	0	1	0	0	1
Abandonment	3	14	15	13	10
Abortion	0	0	2	0	0
Abortion, accessory to	0	0	1	0	0
Accosting a female	1	0	0	0	0
Absent without leave from U. S. Army and Navy	0	0	0	10	17
Adultery	9	2	15	81	39
Allowing minors in poolroom	0	0	0	0	1
Bastardy	26	18	33	19	12
Being present at illegal game	22	0	2	0	0
Being present where lottery is promoted	12	26	0	0	0
Bench warrant	1	1	0	0	2
Bigamy	0	0	3	2	1
Breach of the peace	185	184	143	138	89
Buying junk from minors	0	1	1	0	2
Carrying concealed weapons	45	45	37	30	36
Committing a nuisance	0	0	1	0	0
Common brawler	0	1	1	2	0
Common night walker	9	19	8	24	12
Contempt of court	0	2	3	2	0
Crime against chastity	13	6	2	4	6
Cruelty to animals	2	4	5	5	1
Defaulted	0	0	0	0	6
Delinquents	79	59	26	11	8
Deserters	4	3	4	10	10
Disorderly conduct	28	16	25	36	13
Disorderly house, keeping	8	4	10	11	2
Distributing obscene literature	1	0	0	0	0
Disturbing a meeting	8	19	7	15	8
Disturbance on street car	2	7	7	0	1
Doorkeeper in gambling house	0	0	0	1	0
Drunkenness	2,047	2,195	2,473	1,336	792
Escaped lunatic	2	1	0	0	0
Escaped from Lyman School	0	0	3	0	0
Escaped prisoner	0	0	0	6	6
False advertising of cigars	0	0	0	1	0
Forgery	0	2	0	0	5
Fornication	34	22	34	108	67
Fugitive from justice	85	108	120	142	120
Furnishing liquor to soldiers	0	0	15	11	3
Gambling	86	51	143	67	129
Gaming on Lord's Day	14	12	45	52	34
Habitual truant	0	1	0	0	0
Having obscene literature	1	0	0	1	0
Having obscene pictures	0	0	0	0	1
Having unstamped veal	0	0	0	0	1
Having watered milk in possession	0	0	0	0	10
Hunting without a license	0	0	0	2	1

	1915	1916	1917	1918	1919
Impersonating an officer	0	0	0	0	1
Impersonating a soldier	0	0	0	0	1
Incest	1	1	0	0	0
Indecent exposure	10	6	4	6	2
Insane	55	44	42	29	27
Itinerant vendor	2	1	0	0	0
Keeping gambling house	6	2	7	5	4
Keeping house of ill-fame	6	0	0	0	3
Keeping a liquor nuisance	0	0	2	0	0
Keeping lodging house without a license	0	0	0	1	2
Keeping restaurant without license	0	0	0	0	2
Keeping unlicensed dog	35	25	17	1	4
Lewd and lascivious	11	0	0	11	5
Lewd and lascivious cohabitation	7	15	31	47	32
Mutilating U. S. flag	0	1	3	0	0
Neglected children	0	0	0	24	15
Neglecting to notify State Board of Charity	0	0	0	0	1
Neglecting to report to State Board of Health	0	0	0	0	1
Non-support	107	102	153	120	130
Non-support of parents	0	0	0	14	0
Not having lights on vehicle	0	14	0	0	0
Not recognizing in police court	0	0	1	0	0
Operating auto so as to endanger lives	0	0	0	0	9
Operating auto while under influence of liquor	16	4	28	29	27
Operating steam boiler without license	0	0	0	0	1
Operating unlicensed garage	0	0	0	0	1
Peddling without a license	6	5	13	18	0
Perjury	2	0	0	3	0
Placing obstruction on street car tracks	0	0	2	0	2
Polygamy	0	0	0	2	1
Practicing dentistry without license	0	0	0	0	2
Private detective without license	0	0	0	1	0
Profane and indecent language	25	24	13	7	4
Promoting a lottery	4	1	0	0	4
Reckless driving	2	4	19	5	5
Ringing false fire alarm	0	2	1	0	3
Resisting an officer	0	0	0	2	0
Runaways	96	69	120	127	140
Selling cigarettes to minor	0	0	0	0	1
Selling fireworks without a permit	0	0	1	0	0
Selling instrument to prevent conception	1	0	0	0	0
Selling unstamped veal	0	0	0	0	1
Selling watered milk	0	0	0	0	1
Signing false name to hotel register	0	0	0	4	0
Sodomy	0	1	0	0	0
Storing explosives without a permit	0	0	1	0	0
Straggler from U. S. Navy	0	0	1	0	0

	1915	1916	1917	1918	1919
Stubborn and disobedient	10	24	22	19	17
Surrendered by bondsman	1	0	0	0	0
Suspicion	206	256	345	337	314
Unnatural act	5	6	5	1	0
Using stable without license	0	0	0	0	2
Vagrancy	150	100	140	100	75
Violating alien labor law	2	0	0	0	0
Violating anti-loafing law	0	0	0	37	0
Violating bottle law	7	0	2	6	4
Violating bicycle law	2	0	0	0	0
Violating city ordinances	68	56	186	115	35
Violating draft law	0	0	11	232	0
Violating drug law	17	12	6	1	8
Violating eight foot law	0	0	0	1	5
Violating employment law	5	6	2	0	0
Violating food law	3	0	0	7	1
Violating fowl law	1	0	0	0	0
Violating game law	0	0	0	3	0
Violating garbage law	3	0	0	0	0
Violating gasoline law	0	0	2	0	0
Violating health law	4	0	0	0	4
Violating immigration law	0	0	0	1	0
Violating insurance law	0	0	0	1	0
Violating jitney ordinance	0	0	0	6	8
Violating labor law	1	0	0	1	11
Violating license law	0	1	4	0	0
Violating liquor law	61	66	47	51	41
Violating Lord's Day	8	6	24	5	12
Violating lottery law	3	0	2	0	0
Violating marriage law	0	1	0	0	0
Violating match law	4	0	0	0	0
Violating medical registration	3	0	2	0	1
Violating milk law	1	0	0	0	0
Violating motor vehicle laws	96	215	376	253	144
Violating oleomargarine law	0	0	0	0	2
Violating park ordinances	6	4	3	15	4
Violating probation	86	109	162	114	89
Violating plumbers' law	0	0	0	1	0
Violating poolroom law	1	0	0	0	0
Violating school law	2	1	2	0	0
Violating state boiler inspection law	3	1	0	0	0
Violating state electric law	0	0	0	1	0
Violating traffic law	32	25	64	20	51
Violating true name law	0	0	0	0	6
Violating United States postal law	0	1	1	0	0
Violating weights and measures law	3	6	8	26	8
Walking railroad tracks	37	37	32	38	53
Wearing U. S. Army uniform without right	0	0	0	1	0
Witnesses, held by Court	2	4	0	0	0
	3,954	4,082	5,091	3,988	2,773

RECAPITULATION.

	1915	1916	1917	1918	1919
Total crimes against the person	215	225	273	253	185
Total crimes against property	386	318	538	514	435
Total crimes against the public order	3,954	4,082	5,091	3,988	2,773
	4,555	4,625	5,902	4,755	3,393

NATIVITY OF PRISONERS.

	Males.	Females.		Males.	Females.
Africa	2	0	Italy	145	9
Armenia	2	0	Lithuania	1	0
Australia	1	0	Mexico	1	0
Austria	87	5	Newfoundland	4	0
Belgium	1	0	Norway	2	2
Bohemia	7	0	Poland	9	1
Canada	89	16	Portugal	5	0
China	51	0	Russia	252	17
Cuba	1	0	Scotland	21	0
Denmark	1	1	Spain	4	0
England	25	1	Sweden	35	0
Finland	4	0	Switzerland	1	0
France	3	0	Syria	19	1
Germany	21	4	Turkey	4	1
Greece	46	0	United States	1,927	231
Holland	1	0	Unknown	198	12
Hungary	2	0	West Indies	5	1
Ireland	102	12			

Total, Males, 3,079; Females, 314.
Total, 3,393.

CLASSIFICATION OF AGES OF PRISONERS.

Ages	10–20	21–30	31–40	41–50	Over 50	Unknown	Total
Males	753	844	681	375	228	198	3,079
Females	88	130	60	17	7	12	314
Total arrests							3,393

RECORD OF JUVENILE CASES.

Offenses.

Assault and battery	5	Neglected children	36
Assault to rob	1	Profanity	2
Breaking and entering	14	Stubbornness	27
Breaking glass	7	Taking a team	2
Carrying revolver	1	Truants	54
Defacing a building	8	Vagrancy	2
Disturbing an assembly	5	Violation of auto law	8
Fornication	3	Violation of city ordinance	3
Habitual school offender	21	Violation of Lord's Day	3
Injury to real estate	1	Violation of probation	6
Larceny	76	Violating rule of truant school	1
Larceny in a building	43	Walking railroad track	4
Larceny from person	2		
Total			335

Disposition of Cases.

Committed to Lancaster	15	Fined	24
Committed to Lyman School	9	Probation	105
Committed to Shirley	5	Suspended sentence to Lancaster	1
Committed to State Board of Charity	31	Suspended sentence to Lyman School	3
Committed to Truant School	16	Suspended sentence to Shirley	16
Continued from day to day	19	Suspended sentence to Truant School	16
Discharged	20		
Filed	55		
Total			335

REPORT OF THE MATRONS.

	Female Prisoners.	Female Lodgers.	Lost Children.
December	27	0	9
January	32	0	11
February	29	0	10
March	41	0	8
April	33	0	16
May	29	2	21
June	19	0	18
July	21	0	14
August	13	1	8
September	23	3	16
October	30	1	8
November	17	0	6
	314	7	145

OFFENSES.

Abandoning child	1
Adultery	19
Assault	5
Bigamy	1
Breach of the Peace	3
Common night walker	12
Concealing personal property	1
Crime against chastity	1
Defaulted	1
Disorderly conduct	3
Disorderly house, keeping	1
Drunkenness	54
Fornication	41
Fortune telling	1
Fugitive from justice	2
Insane	13
Keeping gambling house	1
Keeping house of ill-fame	2
Larceny	23
Lewd and lascivious cohabitation	15
Lewd and lascivious conduct	4
Murder	1
Neglected children	4
Non-support of children	1
Polygamy	1
Runaway	18
Stubborn and disobedient	15
Suspicion	5
Vagrancy	21
Violation of liquor law	16
Violation of probation	21
Violation of medical registration	1
Violation of true name law	6
Total	314

ARRESTS OF INDIAN ORCHARD POLICE STATION NO. 2.

Assault and battery	8
Assault and robbery	3
Breaking and entering	1
Buying junk from minor	2
Drunkenness	38
Fugitive from justice	2
Gaming on Lord's Day	8
Gambling	2
Illegal liquor selling	1
Indecent assault	2
Larceny	7

Malicious mischief	1
Non-support	7
Operating auto while under influence of liquor	3
Practicing medicine without license	1
Runaway boys	3
Suspicion	1
Threat to kill	1
Trespass	1
Vagrancy	3
Violating automobile law	3
Violating Lord's Day	1
Violating probation	1
Violating weights and measures law	1
Total	101

TABULATED STATEMENT OF ARRESTS

For the Year Ending November 30, 1919.

MONTHS.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Totals
Males	330	288	262	272	200	276	315	214	181	238	220	223	3,079
Females	27	32	29	41	33	29	19	21	13	23	30	17	314
Minors	78	69	65	89	63	67	85	70	79	47	89	45	846
Adults	279	251	226	224	230	238	249	165	115	214	161	195	2,547
Residents	266	238	208	222	208	192	238	146	122	164	162	170	2,326
Non-Residents	91	82	83	91	85	113	96	89	72	97	88	70	1,057
Americans	245	217	203	213	201	208	229	170	125	113	186	146	2,256
Foreigners	112	103	88	100	92	97	105	65	69	148	64	94	1,137
Totals	357	320	291	313	293	305	334	235	194	261	250	240	3,393

DISPOSITION OF CASES.

Fined and Paid	27	24	38	16	30	20	32	33	24	46	35	57	382
Fined and Committed	7	8	8	6	18	7	11	9	7	3	10	5	99
Committed for Sentence	13	27	22	24	22	30	21	8	9	6	7	13	202
Probated	34	33	37	41	36	33	42	22	29	27	27	27	388
Continued	128	202	137	209	180	141	157	129	95	88	111	116	1,698
Appealed	3	2	4	8	13	3	8	10	3	2	5	4	65
Bound Over to Grand Jury	4	6	1	1	1	1	1	3	1	0	0	0	18
Released	100	84	79	69	72	94	97	49	49	44	46	39	822
Discharged	9	15	9	0	6	10	4	10	8	5	7	13	96
Pending	114	90	87	78	59	77	82	64	37	41	70	92	886
Filed Away	21	23	40	17	30	33	43	53	22	28	20	37	369

REPORT OF

WATER COMMISSIONERS

FOR 1919

CITY OF SPRINGFIELD, MASSACHUSETTS,
MUNICIPAL WATER WORKS.
1920.

BOARD OF WATER COMMISSIONERS.

EDWIN A. BLODGETT, *Chairman*,	Term expires February 1, 1921.
Dr. GEORGE L. FENN,	Term expires February 1, 1922.
ARTHUR A. ADAMS, *Mayor*,	ex officio.

SUPERINTENDENT:

ALFRED E. MARTIN.

WATER REGISTRAR AND CLERK OF BOARD:

ALFRED R. HATHAWAY.

CHIEF ENGINEER:

ELBERT E. LOCHRIDGE.

WATER COMMISSIONERS' REPORT

'WATER COMMISSIONERS' OFFICE,
ADMINISTRATION BUILDING,
SPRINGFIELD, MASS., December 29, 1919.

To the City Council of the City of Springfield, Mass.

GENTLEMEN:—The Board of Water Commissioners herewith submits the forty-sixth annual report of the Municipal Water Works of Springfield, the same being for the fiscal year ending November 30, 1919.

The total *water earnings* for the past year are summarized as follows:—

Net water charges to private consumers,.....	$464,860.04
Water service to municipal departments (uncollectable per city ordinance),.....	72,377.60
Water used by water works and included in its operating expenses,.....	64.40
Total,.....	$537,302.04

This shows a total *decrease* over the earnings of the previous year of $6,910.37, or a net result of the following differences in the summary totals:—

Decrease in *net* water charges to private consumers,.....	—	$8,267.42
Increase in municipal service earnings,.....	+	1,377.50
Decrease in water works self-service,.....	—	20.45
Net resulting decrease, as above,.....		$6,910.37

The above decrease in water charges to private consumers is undoubtedly due to unusual conditions following the war, about $7,000 of same being the falling off in industrial earnings.

The total *cash receipts* from all sources include the following:—water sales, $463,232.40, miscellaneous sales (labor, material, etc.), $49,547.70, and sundry refunds, $517, making a total of $513,297.10, or a decrease of $2,261.58 from the corresponding total receipts of the previous year.

The municipal water works utility being a self-supporting "public service enterprise," none of its funds are derived from the tax levy, and

all expenditures on its account have been met from its cash receipts, such expenditures including the cost of operation and maintenance, interest and payments on bonded debt, extensions and renewals of distribution mains, additional property and equipment, and an adequate contribution to the sinking fund for taking care of the Ludlow supply bonds.

In common with the present increased costs of everything, the operating and other expenditures of the water works show the prevailing upward trend, which cannot well be avoided under the conditions of the present times.

The continued shortage of labor during the year has made it practically impossible to do much extension and distribution work, such work being necessarily confined to only that comparatively small amount which could be done by the very limited force of men in the pipe-laying gang.

Furthermore, this small force has been available for this work during only a portion of the time, after taking care of the demands for service taps and the usual maintenance and repair work which the regular service pipe and repair gangs were unable to meet.

In its continuous study of the changing needs of the water system, the Board has planned for certain replacements and improvements in the distribution piping, necessary for the adequate supply of developing portions of the city and for furnishing proper fire protection, but this work, together with much needed extensions for new sections, has been again temporarily postponed, because of the labor shortage and other unusual conditions. The unexpended surplus revenue which would be ordinarily used for this purpose, has been placed in the reserve fund for deferred work, to help cover the cost of same when it can be undertaken.

Additions to the property and equipment during 1919 have amounted to $77,882.55, and include the following:—for extension of about 17,000 feet of mains, $33,681.66; for installation of hydrants, $6,283.38; for 459 acres of land acquired west of Ludlow reservoir from Isaac Lender, $2,500; amount paid in settlement of claim of Henry W. Ashley for 132 acres of land in North Blandford, taken by City in 1912, $8,000; for 320 acres of land at North Blandford acquired from A. E. & L. O. Peck (known as the Bishop place) in exchange for timber on other property of the City, on a cost basis of $2,500; for legal and engineering expenses on account of the foregoing land acquired, $2,056.35; for improvements at Colton Street service building (changing stable into automobile repair and paint shop, with installation of large electric elevator), $15,097.20; for utility equipment, $4,096.24 (for White truck and Reo touring car); and also sundry minor items.

The total book cost of the plant, property, and equipment November 30, 1919, amounted to $5,758,921.95, and the City's equity in the Municipal Water Works is now $3,596,754.26.

The appraisal and classification of the water works plant and property, as submitted by the special committee on appraisal (after an extended study of same and repeated conferences with the Board), has been accepted and adopted in substance, as to general method of arriving at results shown and as to rates of depreciation suggested, but subject to correction of details, with re-arrangement and additions to December 1, 1919, before final adoption and practical application to the accounting system.

The following are the 1919 payments on account of the water works bonded debt:—

Interest paid on Ludlow supply bonds,	$10,375.00
Interest paid on Little River supply bonds,	63,395.00
Total interest paid,	$73,770.00
Little River supply serial bonds paid,	89,000.00
Amount paid into Sinking Fund for retiring balance of Ludlow supply bonds in 1920 and 1923,	16,151.91
Total payments (from cash revenue) on account of bonded water debt,	$178,921.91

This total is $8,731.63 less than the similar payments of the previous year.

At the close of the 1919 fiscal year the total water works bonded debt is as follows:—

Ludlow supply 3½% sinking fund bonds, due October 1, 1920,	$125,000.00
Ludlow supply 4% sinking fund bonds, due October 1, 1923,	150,000.00
Little River supply 3½% serial bonds, $59,000 due annually,	1,125,000.00
Little River supply 4% serial bonds, $20,000 due annually,	350,000.00
Little River supply 4¼% serial bonds, $10,000 due annually,	190,000.00
Total bonds outstanding,	$1,940,000.00
Less amount in sinking fund for Ludlow supply bonds,	222,190.50
Net bonded water debt November 30, 1919,	$1,717,809.50

This shows that a reduction of $113,016.97 has been made in the net debt during the past year.

It will be seen that $125,000.00 of Ludlow supply bonds mature the coming year, and these will be retired from the sinking fund kept for the purpose, after which a balance of $97,190.50 will remain in such fund which, together with interest accruals and the usual contributions from the water works receipts of the next four years, will be sufficient to retire the only remaining issue of this class of bonds, amounting to $150,000 and maturing October 1, 1923.

Besides the payment from the sinking funds of the maturing Ludlow supply bonds, as above noted, the bonded debt requirements from *water revenue* of the coming year of 1920 will be as follows:—

Interest on Ludlow supply bonds,.....	$10,375.00
Interest on Little River supply bonds,.....	60,105.00
Total interest,.....	$70,480.00
Little River serial bonds due,.....	89,000.00
Annual amount for sinking fund for retirement of Ludlow supply bonds,.....	15,500.00
Total 1920 requirements,.....	$174,980.00

The daily consumption from the Little River system has ranged from 9.60 million gallons on March 2 to 16.25 million gallons on June 4, with a daily average for the past year of 12.28 million gallons.

The supply has been adequate and of excellent quality at all times, and, besides meeting the needs of the Springfield consumers, the Little River system has also furnished the usual continuous supply to the suburban towns of Agawam and East Longmeadow, and emergency supplies to Chicopee and West Springfield, all in accordance with their respective contracts for same.

At the West Parish filters a dwelling house is now being constructed for use by the resident chemist.

The town and village of Ludlow have been supplied during the past year with good potable water from the Ludlow reservoir, and as heretofore the same has been filtered during the summer.

In accordance with the provisions of the legislative act of 1918 (published with our report for that year) an agreement has been entered into by the Board of Water Commissioners and the State Commission on Mental Diseases for compensation to be paid the City of Springfield by the Commonwealth of Massachusetts for diversion of water from Springfield sources for use by the new State School at Belchertown.

Besides the *earnings* derived from water furnished private consumers, the rate value supplied to the City for its various municipal purposes is entered on the books each year as *accrued earnings*, but, no payment being made for same, the total amount has to be charged off annually as a "bad debt!"

The following tabulation in the usual form shows the distribution of the $72,377.60 representing such water service during 1919:—

MUNICIPAL USE OF WATER—1919.

(☞Unmetered quantities in gallons, *estimated* from amounts, on basis of 6⅔ cents per 1,000 gallons,—or equivalent of 5 cents per 100 cubic feet:—per cent metered computed on quantities.)

Classification.	Amounts.	Gallons.	Memo.
Schools,.....	$9,988.60	142,195,191	92.6% metered
Public Buildings (except schools),.....	3,512.25	51,387,426	88% metered
Public Parks,.....	3,477.20	51,740,549	77% metered
Public Playgrounds,.....	148.00	2,214,280	Unmetered
Building Purposes (Streets and Engineering Department)	266.20	3,982,600	Unmetered
Street Flushing,.....	1,100.00	16,500,000	Unmetered
Sewer Department (flushing),	6,340.00	94,853,020	Unmetered
Watering Tanks and Drinking Fountains,.....	645.35	9,655,109	.8% metered
Total of above,.....	$25,477.60	372,528,175	
Fire Hydrant Service,.....	46,900.00	(Not reducible to quantities)	At $25 per hydrant
Total Municipal Use,.	$72,377.60	(As shown in Registrar's Report)	

The Board of Water Commissioners does not wish to unduly press upon the City Council the oft-repeated "matter of compensation to the municipal water works utility for water and service furnished to the various governmental departments of the city," as annually recommended in its reports for many years.

Neither can the Board consider that its full duty to the people of Springfield has been discharged by refraining to urge its previous recommendations, or by ignoring this matter at the present time.

It cannot feel otherwise than that its position is sound and fundamental, especially in view of the expressions from authoritative sources, such as are shown in the few following brief illustrations:—

(*Extract from recent letter from Mr. William J. Hagenah of Chicago,— one of the leading public utility engineers and statisticians of this country,— in commenting on the Springfield Water Commissioners' report for 1918.*)

"I note with much interest the position taken by your board as set forth on pages 10 and 11 of the report, wherein it is urged that the city should compensate the water works for the services which it received. This position is so eminently sound from an economic and business standpoint that it does not admit of argument, and one naturally wonders why cities refrain from treating their utilities in a businesslike manner. It is only by following this course that those who are giving their best efforts to the management of such properties can show the public the true results of their services. That certain departments of the city should make a heavy and expensive demand on the water works property without meeting the costs which they incur is unfair to the water works and would not be tolerated in any other line of business."

(*Extract from opinion handed down by Public Utilities Commission of Maine.*)

"Furnishing free water for municipal and fire protection purposes is unjust for the reason that the consumers are obliged to pay for privileges enjoyed by property owners, whereas the consumer should pay for the water he uses in proportion to his use, and the property owner should pay for his protection in proportion to the taxable value of his property."

(*Extract from recent opinion by Public Service Commission of Pennsylvania relating to fire protection service furnished by a municipality.*)

"No matter what system is adopted, the fundamental fact remains that this service must be paid for, either by the municipality itself, through taxes, or by those who use water, through rates. As an administrative policy we must provide for the payment for this service; and if the municipality refuses to pay the just charges for a service which it performs for its citizens we are compelled to include those charges in the rates."

(*Extract from recent opinion by the Wisconsin Railroad Commission,— a high authority on public utility matters.*)

"It is a good business policy to treat a municipal water plant as an enterprise separate and distinct from the municipality itself, and to have accounts kept accordingly. If this policy is followed the city should pay the utility at a reasonable rate for all service rendered the city, in order to avoid unjust discrimination in favor of the taxpayers of the city as against consumers. The utility, in turn, should pay the city a reasonable amount to cover local taxes and interest on the city's equity in the property, in order to avoid unjust discrimination in favor of the consumers as against the taxpayers."

Many other similar expressions from expert authorities in such matters are available if needed.

With the final adoption of the water works appraisal as substantially approved by the Board recently, and the practical application of the same, including proper charges for depreciation as provided, it may be possible to consider the needed readjustment of water rates upon a sound and equitable basis, and in accordance with modern procedure as recommended by the best water works authorities of the present day.

Such readjustment should not necessarily mean a reduction of revenue at this time, when many water, gas, electric, and other utilities (both private and municipal) have been obliged to *increase* their rates in order to meet the constantly growing higher costs of upkeep and operation.

It has not been practicable during the past year to install meters on any of the municipal services remaining unmetered, in accordance with the wise policy of placing under meter control all municipal uses which may be meterable.

This work should be followed to its consistent completion as soon as conditions will allow.

The annual reports to the Board, of the Registrar, the Superintendent, and the Chief Engineer, giving the details, etc., of operation in their respective divisions, will be found appended and are hereby made a part of this report to the City Council.

Respectfully submitted,

EDWIN A. BLODGETT,
CHARLES H. MULLIGAN,
ARTHUR A. ADAMS,
Board of Water Commissioners.

WATER REGISTRAR'S REPORT

DECEMBER 29, 1919.

To the Board of Water Commissioners of the City of Springfield, Mass.

GENTLEMEN:—The annual report of the Water Registrar for the fiscal year ending November 30, 1919, is herewith submitted as follows:—

An estimated increase in water revenue has not been realized, such receipts for the year not quite reaching the total of the previous year. The decrease is largely in receipts from industrial consumers and is evidently due to unsettled conditions and high costs of carrying on work at the present time.

Among matters and needed changes considered or recommended in previous years, but not yet completed, may be noted the following:—practical application of revised valuation, with proper depreciation charges; equitable readjustment of water rates; revised rules and regulations, in accordance with modern practice, including change in collection notices to consumers; and creation of a "Board of Survey" by the City Council and Mayor (per legislative authority) as the remedy for growing evils resulting from present lax methods in laying out private streets.

It is hoped that the coming year may see progressive results in all of these matters.

As the Registrar's report consists almost entirely of accounting and financial statements, it will be helpful to keep in mind the arrangement of same into three natural sub-divisions, or groups, as follows:—

INCOME AND PROFIT AND LOSS ACCOUNT, in condensed form, followed by supporting details of its several items.

BALANCE SHEET, in condensed form, followed by supporting details of its several items.

CASH RECEIPTS AND EXPENDITURES, in condensed form, with fund division of expenditures.

INCOME AND PROFIT AND LOSS ACCOUNT,
YEAR ENDING NOVEMBER 30, 1919.
(*See Details of Items Following.*)

	Operating Revenue.		
I.	Earnings from Sales of Water to Private Consumers,	$465,706.80	
II.	Less Abatements, Refunds, etc.,	846.76	$464,860.04
III.	Earnings from Sales of Water to City of Springfield:— Earnings based on prescribed rates for water supplied were $72,377.60,—but no payments were made therefor, as per city ordinance,		....
III-A.	Water used by Municipal Water Works and included in its operating expenses,		64.40
	Total Operating Revenues (Water),		$464,924.44
	Operating Expenses.		
IV.	Source of Supply,	$58,382.44	
V.	Transmission Expense,	4,852.54	
VI.	Distribution Expense,	50,299.76	
VII.	Commercial Expense,	14,140.46	
VIII.	General Expense,	29,898.56	
IX.	Undistributed Expense,	5,190.56	
		$162,764.32	
IX-A.	Public Safety Expense,	42.03	
		$162,806.35	
X.	Depreciation Reserve Charge (for Distribution System),	36,000.00	
	Total Operating Expenses,		198,806.35
	Operating Profit,		$266,118.09
XI.	Non-Operating Income (Sundry Sales, not Water),		12,266.11
	Gross Income,		$278,384.20
	Deductions from Gross Income.		
XII.	Interest on Bonded Debt (net),		64,734.11
	Net Income (carried to Surplus),		$213,650.09

DETAILS OF ITEMS IN PROFIT AND LOSS ACCOUNT.—1919.

Operating Revenue.

Earnings from Sales of Water to Private Consumers:—

	Revenue.	Abatements and Refunds.	Net Revenue.
Commercial Consumers (metered),	$372,199.89	$444.68	$371,755.21
Industrial Consumers (metered),	62,451.95	161.00	62,290.95
Institutional Consumers (metered),	7,063.03	192.10	6,870.93
Sales to Contractors (metered),	442.08	7.52	434.56
Sales to Contractors (unmetered),	671.70	7.00	664.70
Miscellaneous Consumers (metered),	4.54	....	4.54
Miscellaneous Consumers (unmetered),	4,371.98	34.46	4,337.52
Earnings from within City:—			
(Metered),	$442,161.49	$805.30	$441,356.19
(Unmetered),	5,043.68	41.46	5,002.22
Total,	$447,205.17	$846.76	$446,358.41
Commercial Sales, Little River Transmission Main (metered),	$62.39	.....	$62.39
Commercial Sales, Ludlow (metered),	1,869.06	.....	1,869.06
Commercial Sales, Ludlow (unmetered),	150.00	.....	150.00
Commercial Sales, Wilbraham (metered),	1,142.64	.....	1,142.64
Industrial Sales, Ludlow Mfg. Co.'s System (metered),	4,539.61	.....	4,539.61
Wholesale Service, Agawam (metered),	2,760.26	.....	2,760.26
Wholesale Service, Chicopee (metered),	5,670.67	.....	5,670.67
Wholesale Service, East Longmeadow (metered),	1,043.39	.....	1,043.39
Wholesale Service, Longmeadow (metered),	250.00	.....	250.00
Wholesale Service, West Springfield (metered),	1,013.61	.....	1,013.61
Earnings from outside City:—			
(Metered),	$18,351.63	.....	$18,351.63
(Unmetered),	150.00	.....	150.00
Total,	$18,501.63	.....	$18,501.63
Total Earnings from Sales to Private Consumers, as per Items I. and II.:—			
(Metered),	$460,513.12	$805.30	$459,707.82
(Unmetered),	5,193.68	41.46	5,152.22
Total,	$465,706.80	$846.76	$464,860.04

DETAILS OF ITEMS IN PROFIT AND LOSS ACCOUNT.—1919.

Operating Revenue.—Continued.

Earnings from Sales of Water to City of Springfield:—

Almshouse and Annexed Buildings (metered),		$1,295.90
Charities Department (Wayfarers' Lodge) (metered),		4.75
Drinking Fountains and Tanks (metered),	$5.35	
" " " " (unmetered),	640.00	
		645.35
Fire Department (buildings) (metered),	$190.20	
" " " (unmetered),	285.00	
	$475.20	
" " Municipal Hydrant Service (1,876 hydrants,—average during year,—at $25 each),	46,900.00	
		47,375.20
Forestry Department (buildings) (unmetered),		30.00
Municipal Group (buildings) (metered),	$298.70	
" " (heating plant) (metered),	94.15	
		392.85
Park Department (fountains, ponds, hose, etc.):—		
(Metered),	$2,680.20	
(Unmetered),	797.00	
		3,477.20
Police Department (buildings) (metered),		299.70
Public Playgrounds (unmetered),		148.00
Public Sanitary (metered),		549.65
School Department (buildings) (metered),	$9,282.90	
" " " (unmetered),	705.70	
		9,988.60
Streets and Engineering Department:—		
Work-shop, Emery street (metered),	$31.30	
Buildings and yard, Summer street (metered),	339.50	
Building purposes (unmetered),	266.20	
Sewer flushing (634 flush gates—average during year—at $10 each) (unmetered),	6,340.00	
Scavenger Division:—		
Incinerating Plant, Logan st. (metered) $7.40		
" " West st. (metered)(off)		
Buildings (unmetered), 86.00		
	93.40	
Street sprinkling and washing (unmetered),	1,100.00	
		8,170.40
Total Earnings from Sales to City of Springfield, as per Item III. (unmetered),	$57,297.90	
(metered),	15,079.70	
		$72,377.60

☞ **No payment is made for this amount by the City, as per City ordinance.**

Municipal Water Works (water used at Broadway garage and Colton street service buildings, and at No. 32 Birnie avenue,—included in Operating Expenses), as per Item III-A. (metered),	$64.40

DETAILS OF ITEMS IN PROFIT AND LOSS ACCOUNT.—1919.

Operating Expenses.

Source of Supply:—	*Ludlow Supply.*	*Little River Supply.*	*Totals.*
Superintendence,	$910.00	$1,046.76	$1,956.76
Operating Labor,	4,478.69	10,103.36	14,582.05
Supplies and Expenses,	2,047.24	3,624.41	5,671.65
Sanitation,	334.48	3,321.54	3,656.02
Purification Labor,	1,253.40	18,272.58	19,525.98
Purification Supplies and Expenses,	308.52	7,972.70	8,281.22
Maintenance of Structures and Equipment,	2,071.50	1,965.30	4,036.80
Maintenance of Purification System,	650.75	21.21	671.96
	$12,054.58	$46,327.86	
Total Source of Supply, as per Item IV.,			$58,382.44

Transmission Expense:—	*Ludlow Supply.*	*Little River Supply.*	*Totals.*
Provin Mountain Reservoir,			$3,195.01
Operating Labor,		$2,017.03	
Supplies and Expenses,		1,177.98	
Patrolling Transmission Mains,		267.11	267.11
Maintenance of Provin Mountain Reservoir, Structures, and Equipment,		65.24	65.24
Maintenance of Transmission Mains,			844.06
Ludlow Main No. 1,			
Ludlow Main No. 2,	$15.09		
Little River Main,		828.97	
Maintenance of Telephone System,		481.12	481.12
	$15.09	$4,837.45	
Total Transmission Expense, as per Item V.,			$4,852.54

DETAILS OF ITEMS IN PROFIT AND LOSS ACCOUNT.—1919.

Operating Expenses.—Continued.

Distribution Expense:—

Street Division Operating Labor,	$9,084.27
Meter and Fittings Division, Operating Labor,	4,163.99
Street Division, Supplies and Expenses,	1,336.72
Meter and Fittings Division, Supplies and Expenses,	563.67
Consumers Premises Expenses,	1,641.77
Maintenance of Mains,	6,293.77
Maintenance of Gates and Valves,	573.95
Maintenance of Services,	2,727.01
Maintenance of Hydrants,	2,369.45
Maintenance of Fountains and Troughs,	4.22
Maintenance of Meters,	8,749.94
Maintenance of Distribution System Buildings, Fixtures and Grounds,	2,501.70
Maintenance of Foremen's House, 97 Colton St.,	18.94
Miscellaneous Distribution Expense,	9,998.20
Maintenance of Equipment,	34.63
Maintenance of Broadway Garage,	143.92
Maintenance of No. 32 Birnie Ave.,	17.86
Electrolysis Survey,	75.75
Total Distribution Expense, per Item VI.,	$50,299.76

Commercial Expense:—

Commercial Division, Salaries,	$7,400.94
Commercial Division, Supplies and Expenses,	460.56
Reading Meters, Salaries,	4,207.67
Reading Meters, Supplies and Expenses,	1,087.49
Undistributable Inspection Expense,	983.80
Total Commercial Expense, per Item VII.,	$14,140.46

DETAILS OF ITEMS IN PROFIT AND LOSS ACCOUNT.—1919.

Operating Expenses.—Continued.

General Expense:—		
Salaries of Officers and Assistants,	$14,916.99	
Salaries of General Office Clerks,	8,469.58	
Printing and Stationery,	1,726.85	
Miscellaneous General Office Supplies and Expenses,	4,698.40	
Maintenance of General Office Equipment,	86.74	
Legislative Expense,	.....	
Total General Expense, as per Item VIII.,		$29,898.56
Undistributed Expense:—		
Injuries and Damages,	$549.95	
Utility Equipment Expense, Autos,	8,011.04	
Utility Equipment Expense, Teams,	37.49	
Stock and Stores Expense,	2,330.21	
Suburban Supplies Expense,	24.24	
Miscellaneous Expense,	510.81	
Inventory Adjustments, (*Credit*)	*6,273.18*	
Total Undistributed Expense, as per Item IX.,		$5,190.56
Public Safety Expense:—		
Expense, account Public Safety, as per Item IX.-A.,		$42.03
Depreciation Reserve Charge:—		
Total, as per Item X.,		$36,000.00
Non-Operating Income:—		
Sale of Products, etc.,	$9,390.23	
Rent from Land, Buildings, etc.,	2,875.88	
Total Non-Operating Income, as per Item XI.,		$12,266.11

DETAILS OF ITEMS IN PROFIT AND LOSS ACCOUNT.—1919.

Deductions from Gross Income.

Interest on Bonded Debt:—		
On $125,000 Ludlow Supply 3½ per cent Bonds,	$4,375.00	
On $150,000 Ludlow Supply 4 per cent Bonds,..	6,000.00	
Total, account Ludlow Supply Sinking Fund Bonds,.....		$10,375.00
On $370,000 Little River Supply 4 per cent Bonds, 1 month,.....	$1,233.34	
On $350,000 Little River Supply 4 per cent Bonds, 11 months,.....	12,833.33	
On $1,094,000 Little River Supply 3½ per cent Bonds, 1 month,.....	3,190.83	
On $1,040,000 Little River Supply 3½ per cent Bonds, 11 months,.....	33,366.67	
On $200,000 Little River Supply 4¼ per cent Bonds, 11 months,.....	7,791.66	
On $190,000 Little River Supply 4¼ per cent Bonds, 1 month,.....	672.92	
On $90,000 Little River Supply 3½ per cent Bonds, 11 months,.....	2,887.50	
On $85,000 Little River Supply 3½ per cent Bonds, 1 month,.....	247.92	
Total, account Little River Supply Serial Bonds,.....		62,224.17
		$72,599.17
Less Interest Received on Sinking Fund (account Ludlow Supply Bonds),.....		7,865.06
Total Interest on Bonded Debt Deducted, as per Item XII.,.....		$64,734.11

BALANCE SHEET—NOVEMBER 30, 1919.

(See Details of Items Following.)

Assets.

XIII.	Plant, Property and Equipment, November 30, 1913,	$5,123,750.00	
XIII-A.	Additions to Plant, Property and Equipment since November 30, 1913,	635,171.95	
			$5,758,921.95*
XIV.	Stock and Stores,		103,703.31
XV.	Accounts Receivable,		73,612.75
XVI.	City Treasurer,		150,691.00
XVII.	Sinking Fund,		222,190.50
	Total Assets,		$6,309,119.51

Liabilities.

XVIII.	Bonded Debt,	$1,940,000.00
XIX.	City of Springfield, Equity,	3,596,754.26
XX.	Current Liabilities,	.....
XXI.	Accrued Interest,	23,650.00
XXII.	Depreciation Reserve (for Distribution System),	93,045.17
XXIII.	Reserves for Deferred Work, etc.,	150,691.00
XXIV.	Surplus,	504,979.08
	Total Liabilities,	$6,309,119.51

☞ * Since this report was submitted the appraisal and classification of all the water works property to date has been completed and adopted as the revised capital cost or plant account as of December 1, 1919. A complete schedule of same, with depreciation charges, will be shown in the next annual report.

DETAILS OF BALANCE SHEET ITEMS, NOVEMBER 30, 1919.

Assets.

Plant, Property and Equipment, November 30, 1913*			
(including changes since that date):—			
In City.			
Original Purchase, including Franchise, Van Horn system, etc. (Balance),		$239,805.50	
Broadway Real Estate (garage),		9,020.45	
Van Horn Property, land (additional to original purchase),		4,419.00	
Colton Street Property:—			
Land,	$20,194.58		
Buildings,	63,853.64		
Equipment,	30,072.30		
		114,120.52	
Utility Equipment and Furniture,		18,835.89	
Ludlow Main No. 1 (portion in city),		230,659.32	
Ludlow Main No. 2 (portion in city),		135,874.47	
Distribution System, including mains, gates, hydrants, meters, services, etc. (also including Orchard street 42" main, $29,088.29),		1,385,263.82	
			$2,137,998.97
Outside City.			
Ludlow Transmission Main, No. 1,		$153,772.88	
Ludlow Transmission Main, No. 2,		188,924.82	
Ludlow Supply, Land, Buildings, Structures and Equipment,		632,887.14	
Little River Supply:—			
Diversion Dam, Tunnel and Road,		357,487.81	
Filtration System,		328,572.01	
Provin Mountain Reservoir,		186,036.02	
Borden Brook Reservoir,		215,388.95	
42" Pipe Line,		497,130.12	
54" Pipe Line,		16,278.41	
Connecticut River Crossing,		100,024.97	
Telephone Line,		4,098.72	
Sanitation during Construction,		7,369.08	
Power Diversion,		117,598.21	
Forestation,		1,870.03	
Land on Watershed, North Blandford, etc.,		36,036.28	
Miscellaneous Construction Expenses (engineering, legal, etc.),		120,806.96	
Expenditures, account possible supplies,		21,468.62	
			2,985,751.03
Total, as per Item XIII.,			$5,123,750.00

*Book costs, subject to revision upon completion of appraisal and revised cost analysis.

[See foot note on p. 211.]

DETAILS OF BALANCE SHEET ITEMS, NOVEMBER 30, 1919.

Assets.—Continued.

Additions to Plant, Property and Equipment since November 30, 1913:—

Additions to Plant, Property and Equipment in 1914,.....			$189,991.48
Additions to Plant, Property and Equipment in 1915,.....			71,125.28
Additions to Plant, Property and Equipment in 1916,.....			194,250.16
Additions to Plant, Property and Equipment in 1917,.....			71,504.20
Additions to Plant, Property and Equipment in 1918,.....			30,415.28
			$557,286.40
Additions to Plant, Property and Equipment in 1919:—			
Land:—			
Ludlow Supply,.....	$2,500.95		
Little River Supply,.....	12,556.35		
Provin Mountain Reservoir,.....	72.00		
		$15,129.30	
Buildings, Fixtures, and Grounds:—			
Ludlow Supply;—Forestation,.....	$43.02		
Little River Supply:—			
West Parish Filters House,.....	19.00		
Forestation,.....	129.74		
Distribution System Buildings, Fixtures and Grounds,.....	4.95		
Stores Division Buildings, Fixtures and Grounds,.....	2.20		
Utility Equipment Buildings.....	15,097.20		
Provin Mountain Structures and Equipment;—Forestation, ...	54.01		
Garage,.....	194.88		
		15,545.00	
Distribution System:—			
Mains,.....	$33,681.66		
Gates,.....	411.26		
Hydrants,.....	6,283.38		
		40,376.30	
General Office Equipment,.....		183.34	
Shop Equipment and Tools,.....		2,643.03	
Utility Equipment,..		4,096.24	
		$77,973.21	
Property Costs, account Public Safety,.....		47.92	
		$78,021.13	
Less Credit:—			
Meters (in service of Water Consumers),.....		135.58	
Net Total Additions to Plant, Property and Equipment, 1919,..			77,885.55
Cost of Total Additions to Plant, Property and Equipment since November 30, 1913, as per Item XIII-A.,.....			$635,171.95

DETAILS OF BALANCE SHEET ITEMS, NOVEMBER 30, 1919.

Assets.—Continued.

Stock and Stores (as per Inventory):—

Cast-iron Pipe Stock,		$56,888.11	
Wrought-iron Pipe Stock,		9,691.14	
Meter Stock,		15,243.86	
Stores and Supplies,		1,006.29	
Small Tools Stock,		9,748.57	
Engineers' Supplies,		544.54	
Filter Supplies (Ludlow),		1,444.13	
		$94,566.64	
Little River Operating Supplies:—			
At Borden Brook Reservoir,	$511.77		
At North Blandford,	552.00		
At West Parish Filters,	3,365.14		
At West Parish Filters (laboratory),	4,609.28		
At Provin Mountain Reservoir,	98.48		
		9,136.67	
Total Stock and Stores, as per Item XIV.,			$103,703.31

Accounts Receivable:—

Consumers' Accounts Committed to City Collector,—			
Balance Uncollected November 30, 1918,		$65,907.14	
Committed to City Collector during Present Year,		523,602.65	
			$589,509.79
Collected by City Collector and Paid to Treasurer during Present Year,		$512,780.10	
Abated to City Collector during Present Year,		3,917.55	
			516,697.65
Consumers' Accounts Committed to City Collector,— Balance Uncollected November 30, 1919 (includes December 1, 1919, commitment),			$72,812.14
Consumers' Accounts not yet Committed to City Collector,—Miscellaneous Sales Charges, etc.			800.61
Total Accounts Receivable, as per Item XV.,			$73,612.75

DETAILS OF BALANCE SHEET ITEMS, NOVEMBER 30, 1919.

Assets.—Continued.

City Treasurer (see Cash Summary):—

Cash in hands of City Treasurer,—Revenues (balance transferred to Sinking Fund),	.....	
Cash in hands of City Treasurer,—Lombard Reservoir Lot Fund,	$691.00	
Cash in hands of City Treasurer,—Reserve for Deferred Work,	150,000.00	
Total City Treasurer, as per Item XVI.,		$150,691.00

Sinking Fund (Account Ludlow Supply Bonded Debt):—

Balance in hands of Sinking Fund Commissioners November 30, 1918,	$176,579.99	
Net surplus transferred from Water Works cash revenue of 1918,	21,593.54	
	$198,173.53	
Interest earnings and additions credited by Sinking Fund Commissioners during 1919 (net),	7,865.06	
Balance in hands of Sinking Fund Commissioners November 17, 1919,		$206,038.59
Net surplus from Water Works cash revenue of 1919,		16,151.91
Total Sinking Fund, as per Item XVII.,		$222,190.50

DETAILS OF BALANCE SHEET ITEMS, NOVEMBER 30, 1919.

Liabilities.

Bonded Debt:—

	Outstanding Nov. 30, 1918.	Paid During Present Year.	Outstanding Nov. 30, 1919.
Ludlow Supply 3½ per cent Sinking Fund Bonds, due October 1, 1920,	$125,000.00	.....	$125,000.00
Ludlow Supply 4 per cent Sinking Fund Bonds, due October 1, 1923,	150,000.00	.....	150,000.00
Little River Supply 4 per cent Serial Bonds,	370,000.00	20,000.00	350,000.00
Little River Supply 3½ per cent Serial Bonds,	1,184,000.00	59,000.00	1,125,000.00
Little River Supply 4¼ per cent Serial Bonds,	200,000.00	10,000.00	190,000.00
	$2,029,000.00	$89,000.00	
Total Bonded Debt, as per Item XVIII.,			$1,940,000.00

City of Springfield Equity:—

Balance November 30, 1918,	$3,429,871.71	
Added during Present Year for new Construction paid from 1919 Revenue,	77,882.55	
Added during Present Year for Bonds paid from 1919 Revenue,	89,000.00	
Total City of Springfield Equity, as per Item XIX.,		$3,596,754.26

Current Liabilities:—

Total Current Liabilities, as per Item XX.,	.....

Accrued Interest:—

Accrued Interest on Ludlow Bonds,	$1,729.17	
Accrued Interest on Little River Bonds,	21,920.83	
Total Accrued Interest, as per Item XXI.,		$23,650.00

DETAILS OF BALANCE SHEET ITEMS, NOVEMBER 30, 1919.

Liabilities.—Continued.

Depreciation Reserve (for Distribution System):—

Aggregate of amounts credited to this account (and Charged to Operating Expenses under "Depreciation Reserve Charge") for six years of 1914 to 1919 inclusive at $36,000 per year,			$216,000.00
Less Cost of Distribution System Renewals charged to above "Reserve" account during the six years, as follows:—1914 to 1918 inclusive (see previous reports),		$116,901.48	
In 1919, as follows:—			
Distribution Mains,	$505.34		
Gates and Hydrants,	3,956.10		
Lowering Ashley Street Mains,	1,591.91		
		6,053.35	122,954.83
Total Depreciation Reserve for Distribution System, as per Item XXII.,			$93,045.17

Reserves for Deferred Work, etc.:—

Reserve for Lombard Reservoir Lot Improvement (amounts reserved from sale of timber on lot in 1914 and 1917),	$691.00
Reserve for Deferred Work (amounts set aside from revenue in 1918 and 1919),	150,000.00
Total Reserves, as per Item XXIII.,	$150,691.00

DETAILS OF BALANCE SHEET ITEMS, NOVEMBER 30, 1919.

Liabilities.—Continued.

Surplus Account:—		
Balance November 30, 1918,.....		$611,568.32
Net Income for 1919 from Profit and Loss Account,.		213,650.09
Delayed Gains in Prior Periods,.....		125.56
		$825,343.97
Delayed Losses in Prior Periods (charged off in 1919),	$2,791.34	
Transfer to City of Springfield Equity Account for new Construction paid from 1919 Revenue,....	77,882.55	
Transfer to City of Springfield Equity Account for Bonds paid from 1919 Revenue,.....	89,000.00	
Transfer to Reserve for Lombard Reservoir Lot Improvement of amounts set aside in 1914 and 1917 for this purpose,.....	691.00	
Transfer to Reserve for Deferred Work of amounts set aside in 1918 and 1919 for this purpose,.....	150,000.00	
		320,364.89
Total Surplus Account, as per Item XXIV.,.....		$504,979.08

CASH SUMMARY.—1919.

Items.	Water Works Revenue.	Reserve Fund for Deferred Work.	Lombard Reservoir Lot Fund.	Total.
Receipts—1919.				
Collections Paid to City Treasurer by City Collector:—				
For Water Accounts,	$463,232.40	.....	.....	$512,780.10
For Misc. Sales,	49,547.70			
For Refunds (sundry accounts),	517.00	.....	.....	517.00
Total Receipts, 1919,	$513,297.10	.....	....	$513,297.10
Less Transfers to Reserves,	−70,000.00	+$70,000.00	.....	.....
Balance in hands of City Treasurer, Nov. 30, 1918,	.....	80,000.00	$691.00	80,691.00
Total Receipts and Balances, 1919,	$443,297.10	$150,000.00	$691.00	$593,988.10
Expenditures—1919.				
Bills Approved and Paid,	$107,421.21	.....	.....	$264,375.19
Pay Rolls Approved and Paid,	156,953.98			
Interest Paid on Ludlow Bonds,	10,375 00	.....	.....	162,770.00
Interest Paid on Little River Bonds,	63,395 00			
Little River Serial Bonds Paid,	89,000.00			
Amount for Sinking Fund (account Ludlow Supply Bonds),	16,151.91	.....	.....	16,151.91
Total Expenditures, 1919,	$443,297.10	.....	.....	$443,297.10
Balances in hands of City Treasurer, Nov. 30, 1919,	.....	$150,000.00	$691.00	150,691.00
Total Expenditures and Balances, 1919,	$443,297.10	$150,000.00	$691.00	$593,988.10

DIVISION OF WATER WORKS CASH EXPENDITURES.—1919.

	From Revenue.		
Operating Expenses,.....		$162,806.35	
Less amounts charged in Operating Expenses,—not cash,.....		5,195.63	$157,610.72
Construction:—			
Land:—			
Ludlow Supply,.....	$2,500.95		
Little River Supply,.....	12,556.35		
Provin Mountain Reservoir,.....	72.00		
	$15,129.30		
Less Amount not cash,—(transfer of timber for land),.....	2,500.00	$12,629.30	
Buildings, Fixtures and Grounds:—			
Ludlow Supply;—Forestation,....	$43.02		
Little River Supply;—West Parish Filters House,.....	19.00		
Forestation,.....	129.74		
Distribution System, Buildings, Fixtures and Grounds,.....	4.95		
Stores Division Buildings, Fixtures and Grounds,.....	2.20		
Utility Equipment Buildings,....	15,097.20		
Provin Mountain Structures and Equipment:—			
Forestation,.....	54.01		
Garage,.....	194.88	15,545.00	
Distribution System:—			
Mains,.....	$33,681.66		
Gates,.....	411.26		
Hydrants,.....	6,283.38	40,376.30	
General Office Equipment,.....		183.34	
Shop Equipment and Tools,.....		2,643.03	
Utility Equipment,.....		4,096.24	
		$75,473.21	
Property Costs, account Public Safety,.....		47.92	
		$75,521.13	
Less Credit:—			
Meters (in service of Water Consumers),.....	$135.58		
Material returned, account Plant Account November 30, 1913,.....	3.00	138.58	
Net Total Construction paid from Revenue,.....			75,382.55
Forward,.....			$232,993.27

DIVISION OF WATER WORKS CASH EXPENDITURES.—1919.

From Revenue.—Continued.

Forward,		$232,993.27
Renewals:—		
Street Work (Main Pipe),	$505.34	
Street Work (Gates and Hydrants),	3,956.10	
Lowering Ashley Street Main Pipe,	1,591.91	
		6,053.35
Cost of Sales (services, meters, repairs, etc., chargeable to consumers) (net),		53,120.21
Treasurer's Advance for 1919 petty cash expenses at office,		500.00
Sundry overpayments, etc. (amounts deducted from operating expenses, when refund was made),		17.00
		$292,683.83
Decrease in stock and stores November 30, 1919, from November 30, 1918,		28,308.64
Total Approved Bills and Pay Rolls paid (from Revenue),		$264,375.19
Interest Payments,	$73,770.00	
Bond Payments,	89,000.00	
Sinking Fund Payments,	16,151.91	
Total Bonded Debt Requirements,		178,921.91
Total Cash Expenditures,		$443,297.10
Transferred to Reserve Fund for Deferred Work,		70,000.00
Total Cash Payments from 1919 Revenue,		$513,297.10

APPENDICES—1919.

Tabulations and statistics, including a summary in form as recommended by the New England Water Works Association, will be found in the appendices to this report.

Respectfully submitted,

ALFRED R. HATHAWAY,
Water Registrar.

BOARD OF WATER COMMISSIONERS, December 29, 1919.

Accepted and ordered made a part of the report of the Board to the City Council.

A. R. HATHAWAY, *Clerk.*

SUPERINTENDENT'S REPORT

DECEMBER 29, 1919.

To the Board of Water Commissioners of the City of Springfield, Mass.

GENTLEMEN:—I herewith submit the forty-sixth annual report of the Superintendent, being for the year ending November 30, 1919.

The amount of pipe laid, the number of gates and fire hydrants set, the amount of pipe discontinued, and the number of gates and fire hydrants taken out, are shown as follows:—

MAIN PIPE, GATES AND HYDRANTS ADDED—1919.

NUMBER.	Extensions.	Renewals.	Private.	TOTALS.
Feet of pipe laid, 1919,.....	16,934	422	2,185	19,541
Added,—account of previous years,.....	270	0	0	270
Total pipe added, 1919,..	17,204	422	2,185	19,811
Gates set, 1919,.....	151	14	26	191
Added,—account of previous years,.....	0	0	0	0
Total gates added, 1919,..	151	14	26	191
Fire hydrants set, 1919,....	41	52	3	96
Added,—account of previous years,.....	0	0	0	0
Total fire hydrants added, 1919,.....	41	52	3	96

MAIN PIPE, GATES AND HYDRANTS TAKEN OUT OR ABANDONED—1919.

NUMBER.	TOTALS.
Feet of pipe,	973
Gates,	22
Fire hydrants,	57

There are now in use 231.16– miles of supply and distribution mains, a net addition of 3.57– miles the past season.

We have laid 16,934 feet of extension main pipe at a cost of $33,681.66, including gates and connections.

From the above it will be noted that, notwithstanding our small force of men, a relatively large amount of work has been done, and when the report of service pipes, both new and renewals, is taken into account, the showing is still better, and indicates that what few men we have managed to retain in our force are well drilled in their work and a most efficient nucleus for a large gang. The main pipe added aggregates upwards of three and one-half miles, and service pipe renewals 374 and new ones 363 approximately.

The longest and perhaps most important job done was the laying of an 8" parallel main in State street from the State Street Grammar School to Walnut street, a distance of about 2,448 feet, which was done at a cost of $5,469.22, and is laid so near the south curb that it will never be necessary to cut into the new paving for service pipes or renewals, thus making a material saving in cost to the abutters for such pipes, whenever they become necessary, besides carrying the hydrants and relieving the fire department from stretching hose across the two car tracks in case of a fire on the south side of the street.

Besides the above, extensions have been made in about fifty-five other streets, varying in length from seven to one thousand feet, and in size from 1" to 12" in diameter, the details of which will all be shown in tables to follow in the appendix to this report.

Labor troubles have been very acute all the year and it has been impossible to keep a full gang. Only a few remain of our older men, and it became necessary to give a material increase in wages in order to retain those few. What the next season has in store for us is beyond the writer's conjecture, but if much work is projected, it will be necessary to employ

machinery to some extent, also to pay at least as much wages as do the contractors of the city.

We were favored with a mild winter and had no frozen service pipes, and it is to be hoped the coming winter will be as favorable in that respect.

Ninety-six hydrants have been installed, of which number 41 are additional, 52 renewals, and 3 private.

One hundred ninety-one gates have been set, of which number 177 are additional and 14 renewals.

Three hundred sixty-three new taps have been made for service pipes and 374 have been replaced, making a total of 737; 33 old ones have been abandoned and cut off, leaving a net total increase of 330 for the year. This, plus last year's total of 15,641, makes the number of taps now connected to the system 15,971.

There have been 77 leaks in service pipes, less in number than in last year's report by 59, thus indicating that the greater number of last year was largely caused by the excessive cold weather as stated in the 1918 report.

There have been 36 leaks in main pipes during the year, an average of .155 per mile of main pipe in use. The following table shows the sizes of pipe in which these leaks occurred:—

Kind and Size of Pipe.	1¼″	2″	6″	8″	10″	12″	16″	24″	30″	36″	42″	Totals.
Wrought-iron,....	2	2	..	..	..	..	..	..	..	..	..	4
Cast-iron,.....	..	..	5	5	4	8	3	..	3	1	2	31
Cement-lined,....	..	..	..	..	..	..	..	1	..	..	..	1
Total leaks,....	2	2	5	5	4	8	3	1	3	1	2	36

Twenty of these leaks were at defective joints; one was a broken Smith sleeve, 5 were at hydrant connections, 4 were from cracked pipe, 1 was caused by the blowing out of an 8″ plug, 1 bend pushed off, and 4 were of lesser degree of importance. In addition to the above, there was one at a joint in the 42″ supply main from Provin mountain in gate chamber at the west side of the Connecticut river.

On January 19, a bad washout in Mill street near Main was caused by the pushing off of a one-eighth bend in a 12″ main where the main

crosses under a large trunk sewer. Quite a little damage was caused to the street but no damage to the sewer or any other property. This leak was repaired at an expenses of $151.99.

On April 13, the new 10″ main in Dwight street just north of Harrison avenue cracked, causing a very bad washout and doing great damage to the street paving and easterly sidewalk. There were no claims for damage to flooded cellars in connection with this break, but the damage to the street was bad enough, the total cost of repairing the same, sidewalk and water main amounting to $3,642.07.

On June 23, an 8″ plug blew out of a cross at the corner of Prospect and Massasoit streets, causing quite a little damage to the street surface and undermining the sidewalk and curbing to some extent. The cost of repairing this break was $83.13.

On the very last day of our fiscal year, Sunday, November 30, occurred the worst break of the year, at about six o'clock in the morning. A Smith sleeve connection between the 12″ main in Chestnut street and the 10″ main in Hillman street gave way at the junction of the above streets, causing great damage to the street and sidewalk, also flooding many cellars in the vicinity of Dwight and Hillman streets, and inflicting much damage to property outside of the street, water mains and ducts, the cost of which cannot be estimated in this report. The break in the main was repaired before night of the same day, but several days elapsed before the street could be put in condition for travel. One of the fortunate circumstances connected with this break was that the weather was very mild, and the men were able to repair the damage to the street mains, ducts and street surface without any great suffering from the cold. The total cost of this break, including settlements for damage to flooded property, cannot be given in this report.

A larger group of hydrants broken by automobiles than usual has been our fortune this year, the list numbering twenty. As usual we have tried to collect for the damage from the owners of the automobiles and in some cases have been successful, in others not. There seems to be no sure way of making these collections. One hydrant at the corner of Fulton and Auburn streets has been broken twice during the year, a good argument perhaps for the elimination of the jog, which has been for so long a time under consideration by our city government.

Hydrants have as usual been regularly inspected and kept in working condition.

The gate system has been inspected and gates operated, besides keeping up with the street department work where gate boxes had to be raised or replaced in connection with new paving.

In addition to this, the gang has inspected a large number of stop boxes in various streets, which work is being prosecuted at such times as the gate inspection gang can give to it, with the intention of eventually inspecting and relocating every stop box in the city.

Our service building and real estate connected therewith have been kept up as usual, and the room which was formerly a stable has now been made into a repair shop for automobiles and is thoroughly appreciated. A six-ton elevator has been installed, is in commission, and is a great success, and we are now equipped for any repair work that may be necessary to our auto equipment, with the exception of the electrical work connected therewith, which is a specialty and requires experts trained in that line.

Meter work has been carried on with the regular routine as in former years, caring for and repairing all that have needed such attention, and setting new ones in newly built property. Approximately 3,345 meters have been repaired and tested and 258 new ones set, making a total of about 3,603 meters handled during the year.

STATISTICS.

In the appendices to this report will be found tables showing the pipe laid, gates and hydrants set, pipe, gates and hydrants taken out, etc.

Respectfully submitted,

ALFRED E. MARTIN,
Superintendent.

BOARD OF WATER COMMISSIONERS, December 29, 1919.

Accepted and ordered made a part of the report of the Board to the City Council.

A. R. HATHAWAY, *Clerk.*

CHIEF ENGINEER'S REPORT

DECEMBER 29, 1919.

Board of Water Commissioners, Springfield, Mass.

GENTLEMEN:—The Little River system has been in operation for ten years. During this time no extensions have been made to increase its capacity, either in the amount of water stored, the equipment for filtration, pipe lines, or filtered water reserve; and the needs of the growing city and community have been cared for fully throughout this time. When this system was installed, there were no calls from the surrounding towns and cities for water, with the exception of an occasional emergency need by West Springfield, and the regular use of the Ludlow supply by the town of Ludlow, which service has been in use for a good many years. Today every town or city touching on our borders is dependent upon the system in greater or less degree. Agawam, East Longmeadow, the Brightwood section of Chicopee and a section of Wilbraham are regular daily users for their entire supply. It is available for emergency uses in the rest of Chicopee and in Longmeadow, while West Springfield annually uses Little River water during periods of shortage.

From 1910 until 1915 the amount of water used by the city remained stationary, the uses of the increased population about offsetting the amounts saved by the extension of the use of meters. In fact, in 1915, the sixth year, the average daily use was 10,250,000 gallons, which was the lowest in the entire period. From this time forward, however, the increase was rapid until 1918, which was a maximum year with 13,320,000 gallons used on an average each day. This increase has not been maintained during 1919. The average amount used daily from the Little River system during 1919 was 12,280,000 gallons, which was a reduction

of 1,040,000 gallons from the 1918 use, and which varies but slightly from the 1917 use. During the first nine months of 1918, an average of 13,720,000 gallons was used daily, which was higher in every month for that period than in any month during any of the preceding years, or during 1919. There has been no indication of a repetition of these abnormally high uses, and it is entirely probable that, with the return of normal conditions, they will not be repeated. No such demand on any one day has been reached as in 1918, when one day recorded a use of 17,980,000 gallons. While it is still evident that the increase of the filtration capacity will be the first addition to be made, and one which cannot be delayed for long, the need is not so pressing for this year as would have been the case if an increase had been recorded in the seasonal or average use of water.

On November 1, Borden Brook reservoir was at its lowest point, at which time 1,407,000,000 gallons remained in reserve out of a total capacity, when full, of 2,500,000,000 gallons. This depletion was greater than in 1918, but is still within the range of safety. The capacity of the filtration plant was reached in the spring and fall for a few days, and this is the only feature of the system which has been used to its full capacity during the year.

Twenty-six thousand white pine trees have been planted on the Little River and Ludlow water sheds, and on Provin mountain, increasing the acreage devoted to reforestation.

The State has contracted to take water from the Jabish Brook valley in Belchertown for the use of the new school for feeble-minded which is soon to be built.

During the year, 459 acres of land were purchased, adjacent to the Ludlow reservoir, at a cost of $2,500. The last of the claims in court in connection with the North Blandford takings in 1912 was settled by the payment of $8,000 to Mr. H. W. Ashley.

The only building project undertaken during the year has been the reconstruction of the stable in connection with the service building at Colton street, which has been rebuilt into a three-story garage and work room, and the construction of an addition outside of the regular building to house a six-ton electric elevator, making all floors accessible. The cost of this addition and alteration was $15,097.20. A contract has been let for the construction of a cottage house at the West Parish filters for the occupancy of the chemist. This is to be completed in the spring at a cost of $7,850.

Mr. Leland G. Carlton, Assistant Engineer, returned from his services as captain in the construction division of the quartermaster's corps, U. S. Army, on July 14, 1919, to resume his work.

The amounts of water used by the various towns and by the city, together with the other features of the supply during the year 1919, are as follows:—

Little River Supply, Amounts Used:—	Gallons.	Increase or Decrease.
East Longmeadow,	10,340,800	+4%
Agawam,	34,183,300	—27%
West Springfield, 36 days,	33,910,000	+560%
Chicopee, 316 days,	52,529,600	+105%
Springfield (including West Wilbraham),	4,350,700,000	—8%
Total from Little River,	4,481,660,000	—8%
Ludlow Supply:—		
Ludlow Village (Ludlow Mfg. Associates),	66,336,000	—18%
Ludlow (direct),	7,093,028	—19%

Little River Supply, Use per day:—	Amount. Gallons.	Per Capita.	Population.
East Longmeadow,	28,300	25	1,124*
Agawam,	93,700	17	5,399
Springfield (including West Wilbraham),	11,920,000	104	114,707
Metropolitan District,	12,280,000		
Ludlow Supply, Use per day:—			
Ludlow,	201,200	28	7,293
Maximum daily use, June 4,	16,250,000		
Minimum daily use, March 2,	9,600,000		

*Population 2,247; 50% supplied.

The figures used for the population of Springfield have been those of the normal increase as indicated by state and national census, and are not of any necessity a true statement of the size of the city. The marked decrease in the use of water from last year may indicate a change in population or a readjustment in the industries of the city.

The quality of the water has been excellent at all times. The details of the operation of the West Parish Filters, showing daily analyses, costs,

and other matters of interest, are given in the appendices, as are also the amounts of water used by the various towns and cities, as follows:—

XIII. Summary of Total Supply.
XIV. Daily Use of Water from Little River Supply,—All towns and City.
XV. Daily Use of Water by East Longmeadow.
XVI. Daily Use of Water by Agawam.
XVII. Daily Use of Water by West Springfield.
XVIII. Emergency Use of Water by Chicopee.
XIX. Daily Use of Water by Springfield.
XX. Daily Use of Water by Ludlow Village (Ludlow Manufacturing Associates).
XXI. Operating Details of West Parish Filters.
XXII. Operating Costs of West Parish Filters.
XXIII. Rainfall Statistics for the Year.

Respectfully submitted,

ELBERT E. LOCHRIDGE,
Chief Engineer.

BOARD OF WATER COMMISSIONERS, December 29, 1919.

Accepted and ordered made a part of the report of the Board to the City Council.

A. R. HATHAWAY, *Clerk.*

APPENDIX TO

WATER COMMISSIONERS' REPORT

FOR 1919

APPENDIX I.

SUMMARY OF STATISTICS
For the Year Ending November 30, 1919.

In form recommended by the New England Water Works Association.

MUNICIPAL WATER WORKS,
City of Springfield, Hampden County, Massachusetts.

GENERAL STATISTICS.

Population of Springfield by State census of 1915, . . . 102,971
Estimated population of Springfield for 1919, . . . 114,207*
Dates of construction:—
Original works in city (*not now in system*), as follows:—
Small supply from springs (by private enterprise), . . 1843
Van Horn reservoir supply (by Springfield Aqueduct Co.), . 1848
Enlargement of above supply (by Springfield Aqueduct Co.), 1864
Sale of above to City, for $238,296 (by Springfield Aqueduct Co.), 1872
(Plus interest paid, total cost=$250,010.58)
Works at Ludlow, Mass., ... 1873–1874–1875
Works at Belchertown, Mass. (auxiliary to Ludlow), 1890–1891
Additional main from Ludlow reservoir, . . . 1893–1894
Supply from Westfield Little River, . . . 1907–1910
By whom owned, ... City of Springfield
Source of supply used by Springfield District (filtered and metered):—
From Westfield Little River, storage capacity as follows:—
Borden brook reservoir (*impounding*), . 2,500,000,000 gallons
Intake reservoir (*diverting*), ... 40,600,000 gallons
Sedimentation basin (*before filtering*), . . 38,700,000 gallons
Provin mountain reservoir (*filtered*), . . 17,000,000 gallons
Total, ... 2,596,300,000 gallons
Source of supply used by adjoining town of Ludlow (filtered into standpipe during summer; unmetered):—
From impounding reservoirs in Ludlow and Belchertown (fed by natural streams, springs and surface water); storage capacity as follows:—
Total (*can be used by Springfield in emergency*), ... 1,434,218,000 gallons
(Aggregate storage capacity, 4,030,518,000 gallons.)
Mode of supply, ... entirely by gravity

*See foot of page 231—Engineer's report.

REVENUE (*credited*)—1919.

(*In revised form recommended by Committee of N. E. W. W. A. in 1913.*)

Balance brought forward:—				
a.	From ordinary (maintenance) receipts,—(cash surplus transferred to sinking fund at end of previous year),		.....	
	Reserve a/c Lombard reservoir lot,		$691 00	
	Reserve for deferred work,		80,000 00	
	Accounts receivable, Nov. 30, 1918,		66,443 50	
b.	From extraordinary receipts,		.....	
c.	Inventory of stock and stores on hand, Nov. 30, 1918,		132,011 95	
	Net total (forward from 1918),			$279,146 45
Earnings from Water Rates:—				
A.	Fixture Rates (*within city*):—			
a.	Domestic,	.....		
b.	Builders' use,	$664 70		
c.	Unclassified,	4,337 52		
			$5,002 22	
B	Meter Rates (*within city*):—			
a.	Domestic,	$330,277 33		
b.	Commercial,	39,463 17		
c.	Industrial,	62,290 95		
d.	Institutional (includes churches),	8,885 64		
e.	Builders' use,	434 56		
f.	Unclassified,	4 54		
			441,356 19	
C.	Public Uses (*not charged for or collected*, per city ordinance):—			
a.	Hydrants,	$46,900 00		
b.	Fountains and ponds,	1,495 05		
c.	Street washing and sprinkling,	1,100 00		
d.	Public buildings,	13,493 45		
e.	Sewer and street department, building purposes,	266 20		
f.	Park uses,	1,982 15		
g.	Public playgrounds,	148 00		
h.	Flushing sewers,	6,340 00		
i.	Incinerating plants,	7 40		
j.	Watering tanks and drinking fountains,	645 35		
		$72,377 60	.....	
	Total from within city,		$446,358 41	

EXPENDITURES (*charged*)—1919.

Water Works Maintenance:—				
AA.	Operating expenses (includes all maintenance except renewals of distribution mains, gates and hydrants, and special expense a/c public safety),			$162,764 32
BB.	Special:—			
	Renewal work, distribution system,			6,053 35
	Special expense a/c public safety,			42 03
CC.	Total maintenance and operating expenses charged 1919 (not including interest),			$168,859 70
DD.	Interest on bonds (amount paid), (CC+DD=$242,629.70)			73,770 00
EE.	Payment on bonds (for new supply) (old supply bonds are payable from sinking fund),			89,000 00
FF.	Sinking fund (for Ludlow supply bonds),			16,151 91
Water Works Construction:—				
GG.	Extension of mains,	$33,681 66		
HH.	Extension of services (paid for by consumers),	.....		
II.	Extension of meters (mostly paid for by consumers), (*Cr.*)	*185 58*		
JJ.	Special:—			
	Hydrants—extension,	6,283 38		
	Gates—extension,	411 26		
	Land,	15,129 30		
	Buildings, fixtures and grounds,	15,545 00		
	Office equipment,	183 34		
	Shop equipment,	2,643 03		
	Utility equipment,	4,096 24		
	Property costs a/c public safety,	47 92		
		$77,885 55		
	Less:			
	Material sold a/c plant, property and equipment Nov. 1, 1913,	3 00		
KK.	Net aggregate construction charged, 1919,			$77,882 55

D	Other Miscellaneous Earnings:—			
	a. Water used outside city:—			
	Fixture rates,	$150 00		
	Meter rates,	18,351 68		
			18,501 68	
	Total water rates collectible,		$464,860 04	
	b. Water used by water works (included in its operating expenses),		64 40	
	Total operating revenues,			464,924 44
E.	General appropriations,			.....
F.	From Municipal Departments,			.....
G.	From tax levy,			.....
H.	From bonds,			.....
I.	From other sources:—			
	a. Non-operating income (sale of products, rentals, etc.),			12,266 11
	b. Delayed gains a/c prior periods,			125 56
J.	Total credited (including balance forward),			$756,462 56

LL.	Unclassified expenses:—			
	Delayed losses in prior periods charged off in 1919,			2,791 34
	Net total *charges*, 1919,			$428,455 50
MM.	Balance, Nov. 30, 1919:—			
	Inventory of stock and stores on hand,		$103,703 31	
	Cash in hands of City Treasurer:—			
	Lombard reservoir fund lot,		691 00	
	Reserve fund for deferred work,		150,000 00	
	Accounts Receivable:—			
	Committed to City Collector,—uncollected (includes Dec. 1st bills),	$72,812 14		
	Not yet committed to City Collector,	800 61		
			73,612 75	
				328,007 06
J.	Total (in balance with revenue),			$756,462 56

Disposition of balance. Carried forward.

O.	Net cost of works to date,		$5,758,921 95
P.	Bonded debt at date, { Ludlow supply,	$275,000 00	
	{ Little River supply,	1,665,000 00	
			$1,940,000 00
Q.	Value of sinking fund at date (Ludlow supply bonds),		$222,190 50
R.	Average rate of interest, { Ludlow supply bonds,		3.77%
	{ Little River supply bonds,		3.64%

STATISTICS OF CONSUMPTION OF WATER.

(In revised form recommended by Committee of N. E. W. W. A. in 1913.)

1.	Year for which report is made,	1919
2.	Population—(Springfield district):—	
	a. Total—(Springfield, 114,207, and Wilbraham, 500) (estimated),	114,707
	b. On line of pipe (estimated), (See note at top of next page.)	113,284
	c. Supplied (estimated),	112,861
3.	Total number of active taps,	15,560
4.	Average number of persons per active tap (2*a*+3),	7.37+
5.	Total number of metered taps,	15,264
6.	Per cent of active taps metered (5+3),	98.10—
7.	Total water consumption is determined by Venturi meter on supply main at Provin Mountain reservoir.	
8.	Water supplied from Little river system during *mean year* covered by consumers' meters:—	

(Recorded by consumers' meters, as follows):—

	In Springfield:—	*Gallons.*	*Per Cent of Total (8-n).*
	a. For domestic uses,	1,776,521,528	39.82
	b. For commercial uses,	377,336,828	8.46
	c. For industrial uses,	855,556,683	19.18
	d. For institutional uses,	69,258,759	1.55
	e. For builders' uses,	2,869,528	.06
	f. For charitable uses (free),	14,583,646	.32
	g. For public uses (uncollectible) (23.3% of such municipal services metered),	217,821,748	4.88
h.	Total in Springfield,	3,313,948,720	74.27
i.	Total in Wilbraham,	5,688,187	.13
j.	Total in Springfield district,	3,319,636,907	74.40
k.	Total outside Springfield district,	111,207,650	2.49
l.	Total recorded by consumers' meters,	3,430,844,557	76.89
m.	For unmetered sales, unmetered private fire supplies, unmetered public uses, and lost and unaccounted-for (*balance*),	1,030,865,443	23.11
n.	Total water supplied from Little river system during *mean year* covered by consumers' meters,	4,461,710,000	100.00

9.	Water supplied to Springfield district, 1919:—	
	a. Total for calendar year,	4,350,700,000 gallons
	b. Percentage metered (8*j*+9*a*),	76.30+per cent
	c. Total average per day (9*a*+365 days),	11,920,000 gallons
	d. Average per day per active tap (9*c*+3),	766 gallons
	e. Average per day per consumer (9*c*+2*c*),	105 gallons*
	f. Average per day per capita (9*c*+2*a*),	103 gallons*

*See foot of page 231—Engineer's report.

STATISTICS RELATING TO DISTRIBUTION SYSTEM.

MAINS.

1.	Kind of pipe used:—wrought-iron cement-lined (formerly used by private aqueduct company and by city);—wrought-iron—for small and temporary mains,—and cast-iron and steel (used by city at present).	
2.	Sizes;—from one inch to fifty-four inches.	
3.	Extended during year (added to pipe table, including all changes, etc.),	19,811 feet
4.	Discontinued during year (deducted from pipe tables, including all changes, etc.),	973 feet
5.	Total now in use (city, Indian Orchard, Wilbraham, and Ludlow),	231.16—miles
6.	Cost of repairs per mile (including big breaks),	$25.20+*
7.	Number of leaks per mile (total leaks=36),	0.155
8.	Length of pipes less than 4 inches in diameter,	8.47+miles
9.	Number of hydrants added during year (public =36, and private=1) (net),	37
10.	Number of hydrants (public=1,894, and private =131), now in use (city, Indian Orchard, and Wilbraham),	2,025
11.	Number of hydrants in Ludlow (public=19, private=108), now in use,	127
12.	Number of stop gates added during year (public and private) (net),	169
13.	Number of stop gates now in use,	6,126
14.	Number of gates smaller than 4-inch,	817
15.	Number of blow-offs (air valves),	117
16.	Range of pressure on mains:—	

	Maximum	Average
a. Main street level,	147 lbs.	140 lbs.
b. Hill section level,	87 lbs.	80 lbs.

*The increased "Cost of repairs per mile" is due to an especially bad break in Dwight street, near Harrison avenue, causing great damage to the street paving.

SERVICES.

17. Kind of pipe used:—lead (formerly used by private aqueduct company);—cement-lined wrought-iron, and tarred wrought-iron (formerly used by city);—galvanized wrought-iron, lead-lined wrought-iron, and cast-iron (used by city at present).
18. Sizes from ½ to 10 inches
19. Extended during year (in feet).
20. Discontinued during year (in feet).
21. Total now in use (in miles).

NOTE.—Services paid for entirely by the consumers, and no special statistics kept of them.

22. Number of services added during year (net) (to December 1st), 330
23. Total services December 1, 1919, ... 15,971
    a. Active services, ... 15,560
    b. Metered services, ... 15,264
24. Average length of service.
25. Average cost of service.

(See note under 19, 20, 21.)

26. Number of meters added (net to December 1st), . 361
27. Total meters December 1, 1919, ... 15,348
28. Percentage of active services metered, December 1, 1919, ... 98.10—per cent
29. Percentage of net earnings from metered water (to December 1st), ... 98.89+per cent
30. Number of motors and elevators added and discontinued (net), ... —1
    a. Motors added, 0; discontinued, 1; . . . = —1
    b. Elevators added, 1; discontinued, 1; . . . = 0
31. Number of motors and elevators now in use, . . 410*
    a. Motors, ... 65
    b. Elevators, ... 345

* 1918 total should have been 411, instead of 413.

APPENDIX II.

COMPARATIVE STATEMENT OF WATER RECEIPTS SINCE 1884.

(*On annual basis of twelve months.*)

Year.	Water Rates Charged—Gross Earnings. (*During the year, only.*)		Water Rates Collected. (*Including balances forward.*)	
	Totals.	Gain or Loss.	Totals.	Gain or Loss.
1885	$93,421 60	+$5,976 56	$90,848 05	+$5,262 34
1886	100,537 77	+ 7,116 17	97,298 78	+ 6,450 73
1887	108,140 94	+ 7,603 17	105,451 52	+ 8,152 74
1888	115,146 35	+ 7,005 41	112,581 21	+ 7,129 69
1889	126,220 72	+11,074 37	122,541 52	+ 9,960 31
1890*	133,553 28	+ 7,332 56	129,913 27	+ 7,371 75
1891	140,604 85	+ 7,051 57	136,985 11	+ 7,071 84
1892	150,515 67	+ 9,910 82	146,349 09	+ 9,363 98
1893	164,894 65	+14,378 98	160,936 78	+14,587 69
1894	167,376 11	+ 2,481 46	162,769 71	+ 1,832 93
1895	182,357 49	+14,981 38	178,421 15	+15,651 44
1896	194,069 28	+11,711 79	189,373 75	+10,952 60
1897	196,818 72	+ 2,749 44	192,132 58	+ 2,758 83
1898	209,183 12	+12,364 40	201,710 66	+ 9,578 08
1899	220,673 14	+11,490 02	213,061 24	+11,350 58
1900	225,798 96	+ 5,125 82	218,741 57	+ 5,680 33
1901*	233,227 98	+ 7,429 02	218,815 05	+ 73 48
1902*	231,594 98	— 1,633 00	223,903 08	+ 5,088 03
1903	245,358 59	+13,763 61	238,673 13	+14,970 05
1904	249,779 77	+ 4,421 18	244,767 77	+ 6,094 64
1905	259,133 06	+ 9,353 29	252,747 50	+ 7,979 73
1906*	263,746 17	+ 4,613 11	260,186 99	+ 7,439 49
1907*	267,263 78	+ 3,517 61	255,109 17	— 5,077 82
1908*	293,896 28	+26,632 50	291,108 15	+35,998 98
1909	302,230 17	+ 8,333 89	298,449 48	+ 7,341 33
1910	327,333 58	+25,103 41	322,845 84	+24,396 36
1911	344,591 64	+17,258 06	341,057 40	+18,211 56
1912*	341,515 25	— 3,076 39	333,607 69	— 7,449 71
1913	375,558 61	+34,043 36	359,274 81	+25,667 12
1914	397,823 84	+22,265 23	395,094 09	+35,819 28
1915*	393,394 68	— 4,429 16	395,046 41	— 47 68
1916	413,958 91	+20,564 23	411,423 13	+16,376 72
1917	446,889 60	+32,930 69	443,262 17	+31,839 04
1918	474,439 47	+27,549 87	470,113 46	+26,851 29
1919	465,706 80	— 8,732 67	463,232 40	— 6,881 06

*See explanatory notes in annual reports for years indicated.

APPENDIX III.

SERVICE TAPS AND SUPPLY AND DISTRIBUTION MAINS SINCE 1884.

Year.	Service Taps.		Distribution Mains.		Supply and Distribution Mains in Use. (Miles.)
	Total Number.	Net Increase.	Extensions. (Feet.)	Cost of Extensions.	
1885	4,237	224	10,014	$11,235 33	75 01
1886	4,519	282	15,993	14,158 71	78 65
1887	4,819	300	17,244	14,600 36	81 55
1888	5,147	328	13,877	14,038 56	84 97
1889	5,497	350	29,059	26,418 94	91 11
1890	5,770	273	9,962	7,833 06	92 28
1891	6,181	411	14,927	10,396 00	94 86
1892	6,633	452	24,853	16,253 21	98 63
1893	7,000	367	25,079	17,090 71	102 97
1894	7,482	482	20,280	13,491 16	117 21*
1895	7,900	418	32,368	25,302 47	123 65
1896	8,298	398	23,521	21,018 62	127 80
1897	8,721	423	39,108	22,349 41	134 71
1898	9,070	349	28,810	16,042 36	140 08
1899	9,456	386	20,851	10,069 22	143 21
1900	9,764	308	9,880	6,362 20	144 69
1901	10,034	270	8,668	5,174 62	146 22
1902	10,221	187	5,353	3,060 71	147 34
1903	10,471	250	16,425	13,147 42	150 44
1904	10,641	170	9,767	6,163 18	152 20
1905	10,946	305	20,309	17,290 22	154 67
1906	11,175	229	17,027	24,054 14	156 84
1907	11,385	210	20,099	114,117 98**	160 42
1908	11,706	321	19,047	72,635 91**	161 85
1909	12,134	428	30,177	111,153 39**	174 87*
1910	12,545	411	45,520	152,570 23**	182 74
1911	12,985	440	31,816	43,044 79**	188 87
1912	13,407	422	31,159	39,747 99	195 11
1913	13,692†	473†	54,043	74,272 30	205 31
1914	14,126	434	39,634	64,429 03	212 69
1915	14,642	516	34,244	43,009 57	218 51
1916	15,248	606	22,425	27,858 26	223 02
1917	15,611	363	17,643	27,948 52	226 92
1918	15,641	30	2,786	9,058 14	227 59
1919	15,971	330	16,934	33,681 66	231 16

* The total of 117.21 miles of main and distribution pipe at end of 1894 includes 10.86 miles of "Ludlow Supply Main No. 2," laid in 1893 and 1894; and the total of 174.87 miles at end of 1909 includes 13.29 miles of "Little River Supply" pipe, laid in 1908-1909-1910.

** Amounts include *extension-cost* of "Circuit" mains, as follows:—1907=$93,911.77; 1908=$26,776.96; 1909=$91,900.00; 1910=$121,039.43; 1911=$4,693.65; leaving following balances for ordinary and improvement extensions:—1907=$20,206.21; 1908=$45,858.95; 1909=$19,253.39; 1910=$31,530.80; 1911=$38,351.14.

†Revised by actual count for total, and elimination of errors of earlier years due to evident oversight of taps abandoned.

APPENDIX IV.

CLASSIFICATION OF CONSUMERS, DECEMBER 1, 1919.

(Not including Ludlow Manufacturing Associates' private system in Ludlow Village.)

CLASSIFICATION.	Total, End of Year 1919.	Total, Beginning of Year 1919.	Increase or Decrease 1919.
Domestic:—			
Apartment Blocks	863	861	+2
Dwellings (single)	6,339	6,263	+76
Dwellings (double)	319	325	—6
Dwellings (tenement)	6,825	6,750	+75
Tenements (included in above)	32,020	31,762	+258
Commercial:—			
Banks	13	12	+1
Business Blocks	440	438	+2
Garages (public)	50	44	+6
Gasolene Stations	7	6	+1
Greenhouses	9	10	—1
Hotels	21	18	+3
Restaurants	105	100	+5
Saloons	63	63	....
Stables (public)	11	15	—4
Stores	1,702	1,652	+50
Theaters	7	7	....
Industrial:—			
Breweries	3	3	....
Foundries	18	18	....
Gas Works	1	1	....
Laundries (public)	57	54	+3
Manufactories	132	133	—1
Railroads	4	4	....
Institutional:—			
Cemeteries	6	6	....
Charitable Institutions	12	12	....
Churches	60	60	....
Colleges	2	2	....
Court House	1	1	....
Hospitals	5	6	—1
Jail	1	1	....
Libraries	4	4	....
Post Offices	4	4	....
Schools (private)	12	11	+1
State Militia Armory	1	1	....
Truant School	0	1	—1
United States Armory	1	1	....
United States Barracks	0	2	—2
Municipal (*Public Use*):—			
Drinking Fountains and Tanks	26	26	....
Fire Department Stations	13	13	....
Fire Hydrants	1,913	1,877	+36
Fountains	19	19	....
Parks	23	23	....
Playgrounds	9	9	....
Police Department Stations	2	2	....
Reduction Plants	2	2	....
Sanitary	1	1	....
Schools	43	43	....
Street Sprinkling Hydrants	184	184	....
Fixtures:—			
Bath Tubs	28,406	27,877	+529
Elevators	345	345	....
Motors	65	66	—1
Urinals	1,056	1,025	+31
Water Closets	43,604	42,857	+747

APPENDIX V.

CLASSIFICATION OF SERVICES, DECEMBER 1, 1919.

CLASSIFICATION.	Sizes of Services.												Total, End of Year 1919.	Total, Beginning of Year 1919.	Increase or Decrease, 1919.
	½"	¾"	1"	1¼"	1½"	2"	2½"	3"	4"	6"	8"	10"			
Revenue Services.															
Within City.															
Domestic Consumers,	7	85	9,475	3,195	331	89	4	2	8	2	..	..	13,198	12,952	+246
Domestic and Commercial Consumers,	1	4	193	249	78	41	6	7	11	3	..	..	593	554	+39
Commercial Consumers,	..	4	169	168	70	80	10	14	123	16	1	..	655	613	+42
Churches,	..	1	19	19	6	15	2	..	1	..	..	..	63	63	..
Total—called "Commercial,"	8	94	9,856	3,631	485	225	22	23	143	21	1	..	14,509	14,182	+327
Industrial Consumers,	..	2	48	60	26	62	17	19	101	35	12	3	435	429	+6
Institutional Consumers,	..	..	10	25	7	14	4	4	10	4	1	..	79	80	−1
Public Uses,	..	1	4	2	1	..	..	..	..	1	..	..	9	9	..
Total within City,	8	97	9,918	3,718	519	301	43	46	254	111	14	3	15,032	14,700	+332
Outside City.															
Commercial Consumers, Little River Transmission Main,	..	..	7	1	..	..	..	..	..	..	..	..	8	6	+2
Com'l Consumers, Ludlow,	..	5	98	29	1	2	..	..	5	..	..	..	140	137	+3
Com'l Consumers, Wilbraham,	..	..	35	26	2	5	..	..	..	..	..	..	68	69	−1
Industrial Consumers, Ludlow Mfg. Co.'s System,	..	..	..	..	..	..	..	..	..	..	1	1	2	2	..
Wholesale Service, Agawam,	..	..	..	..	..	..	..	..	..	..	1	..	1	1	..
Wholesale Service, Chicopee,	..	..	..	..	..	..	..	..	..	..	1	..	1	1	..
Wholesale Service, East Longmeadow,	..	..	..	..	..	..	..	..	..	1	..	..	1	1	..
Wholesale Service, Longmeadow	..	..	..	..	..	..	..	..	..	..	1	..	1	1	..
Wholesale Service, West Springfield,	..	..	..	..	..	..	..	..	..	..	1	..	1	1	..
Total outside City,	..	5	140	56	3	7	..	..	5	1	5	1	223	219	+4
Total Revenue Services,	8	102	10,058	3,774	522	308	43	46	259	112	19	4	15,255	14,919	+336

CLASSIFICATION OF SERVICES, DECEMBER 1, 1919—(Concluded).

CLASSIFICATION.	Sizes of Services. ½"	¾"	1"	1¼"	1½"	2"	2½"	3"	4"	6"	8"	10"	Total, End of Year 1919.	Total, Beginning of Year 1919.	Increase or Decrease, 1919.
Non-Revenue Services.															
Private Use.															
Domestic Consumers,	..	..	1	..	..	..	..	..	..	..	..	..	1	2	—1
Domestic and Commercial Consumers,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Commercial Consumers,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Churches,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total—called "Commercial,"	..	..	1	..	..	..	..	..	..	..	..	..	1	2	—1
Institutional Consumers,	..	..	1	3	1	..	..	..	..	..	..	..	5	5	..
Total Private Use in City,	..	..	2	3	1	..	..	..	..	..	..	..	6	7	—1
Commercial Consumers, Ludlow,	..	..	1	..	..	..	..	..	11	..	..	..	12	12	..
Total Private Use,	..	..	3	3	1	..	..	..	11	..	..	..	18	19	—1
Public (Municipal) Use.															
Buildings and Departments,	..	9	34	18	24	18	3	13	32	8	1	..	160	160	..
Drinking Fountains and Tanks,	..	3	11	5	..	2	..	..	..	..	..	..	21	21	..
Street Watering Hydrants:—															
Standpipes—cart sprinklers,	..	..	..	..	..	..	109	..	..	..	..	..	109	113	—4
Special hydts,—st. washing,	..	..	..	..	..	..	45	..	..	..	..	..	45	41	+4
Total Public Use,*	..	12	45	23	24	20	157	13	32	8	1	..	335	335	..
Total Non-Revenue Services,	..	12	48	26	25	20	157	13	43	8	1	..	353	354	—1
Total Classified Services,	8	114	10,106	3,800	547	328	200	59	302	120	20	4	15,608	15,273	+335
Total Unclassified Services,	1	7	252	57	12	14	..	3	13	4	..	..	363	368	—5
Total Services,*	9	121	10,358	3,857	559	342	200	62	315	124	20	4	15,971	15,641	+330

*Fire Hydrants, Flush Gates for sewer system, and Track Hydrants for street watering, not included under "Services" in records.

APPENDIX VI.

CLASSIFICATION OF METERS, DECEMBER 1, 1919.

CLASSIFICATION.	Sizes of Meters.										Total, End of Year 1919.	Total, Beginning of Year 1919.	Increase or Decrease. 1919.
	½" or ⅝"	¾"	1"	1¼"	1½"	2"	3"	4"	6"	8"			
Revenue Meters.													
Within City.													
Domestic Consumers,	9,212	3,277	589	44	68	15	1	1	1	..	13,208	12,939	+269
Domestic and Commercial Consumers,	203	224	137	11	28	24	13	4	1	..	645	615	+30
Commercial Consumers,	145	185	137	9	40	31	31	44	8	..	680	635	+45
Churches,	23	18	11	1	7	1	..	1	..	..	62	61	+1
Total—called "Commercial,"	9,583	3,704	874	65	143	121	45	50	10	..	14,595	14,250	+345
Industrial Consumers,	33	37	59	3	36	76	43	59	40	9	395	383	+12
Institutional Consumers,	13	18	16	2	6	10	7	5	2	..	79	77	+2
Public Uses,	5	2	..	..	..	1	..	1	..	..	9	9	..
Total within City,	9,634	3,761	949	70	185	208	95	115	52	9	15,078	14,719	+359
Outside City.													
Commercial Consumers, Little River Transmission Main,	8	..	..	..	..	..	..	..	..	..	8	6	+2
Commercial Consumers, Ludlow	111	15	4	..	..	2	..	..	..	..	132	129	+3
Commercial Consumers, Wilbraham,	29	5	..	2	5	..	..	..	..	..	41	41	..
Industrial Consumers, Ludlow Mfg. Co.'s System,	..	..	..	..	..	..	..	..	..	1	1	1	..
Wholesale Service, Agawam,	..	..	..	..	..	..	..	..	1	..	1	1	..
Wholesale Service, Chicopee,	..	..	..	..	..	..	..	..	1	..	1	1	..
Wholesale Service, East Longmeadow,	..	..	..	..	..	..	..	..	1	..	1	1	..
Wholesale Service, Longmeadow	..	..	..	..	..	..	..	..	..	..	..	..	..
Wholesale Service, West Springfield,	..	..	..	..	..	..	..	..	..	1	1	1	..
Total outside City,	148	20	4	2	5	2	..	..	3	2	186	181	+5
Total Revenue Meters,	9,782	3,781	953	72	190	210	95	115	55	11	15,264	14,900	+364

CLASSIFICATION OF METERS, DECEMBER 1, 1919—(CONCLUDED).

CLASSIFICATION.	SIZES OF METERS.										Total, End of Year 1919.	Total, Beginning of Year 1919.	Increase or Decrease, 1919.
	½" or ⅝"	¾"	1"	1¼"	1½"	2"	3"	4"	6"	8"			
NON-REVENUE METERS.													
Private Use.													
Domestic Consumers,.....	1	..	..	..	..	..	..	..	..	..	1	2	—1
Domestic and Commercial Consumers,.....	..	..	..	..	..	..	..	..	..	..	..	..	..
Commercial Consumers,.....	..	..	..	..	..	..	..	..	..	..	..	..	..
Churches,.....	..	..	..	..	..	..	..	..	..	..	..	..	..
Total—called "Commercial,"	1	..	..	..	..	..	..	..	..	..	1	2	—1
Industrial Consumers,.....	..	..	..	..	..	..	..	..	..	..	..	..	..
Institutional Consumers,.....	..	1	3	..	1	..	..	..	..	..	5	5	..
Total Private Use,.....	1	1	3	..	1	..	..	..	..	..	6	7	—1
Public (Municipal) Use.													
Buildings and Departments,...	8	4	7	2	3	14	22	11	3	1	75	77	—2
Drinking Fountains and Tanks,	1	1	1	..	..	..	..	..	..	..	3	3	..
Street Watering Hydrants,....	..	..	..	..	..	..	..	..	..	..	..	..	..
Total Public Use,.....	9	5	8	2	3	14	22	11	3	1	78	80	—2
Total Non-Revenue Meters,..	10	6	11	2	4	14	22	11	3	1	84	87	—3
Total Revenue and Non-Revenue Meters,.....	9,792	3,787	964	74	194	224	117	126	58	12	15,348	14,987	+361
Owned by Consumers,.....	9,787	3,782	958	73	192	208	99	118	55	11	15,283	14,921	+362
Owned by Water Works,.....	5	5	6	1	2	16	18	8	3	1	65	66	—1

APPENDIX VII.

SUMMARY OF MAIN PIPE LAID AND TAKEN OUT IN 1919.

(Including Changes and Corrections.)

Divisions.	1″	1¼″	1½″	2″	4″	6″	8″	10″	12″	Totals
PIPE LAID										
Owned by Private Parties										
Wrought-iron,.....	86	245	..	1,854	..	..	..	..	..	2,185
Owned by City										
Wrought-iron,.....	..	36	342	..	..	..	..	..	..	378
Cast-iron,.....	..	..	..	..	135	1,023	14,144	264	1,682	17,248
Total Pipe Added,.....	86	281	342	1,854	135	1,023	14,144	264	1,682	19,811
PIPE TAKEN OUT OR ABANDONED										
Wrought-iron,.....	261	..	114	59	..	..	..	..	..	434
Cast-iron,.....	..	..	..	..	314	225	..	..	..	539
Total Pipe Deducted,.....	261	..	114	59	314	225	..	..	..	973
Net Pipe Added, 1919,.....	—175	+281	+228	+1,795	—179	+798	+14,144	+264	+1,682	+18,838

APPENDIX VIII.

CHANGES IN TOTALS OF MAIN PIPE DURING 1919.

SUPPLY MAINS—(FEET).

Size in Inches.	In Use First of Year.	Laid During Year.	Abandoned and Taken Up During Year.	Net Change for Year.	In Use Close of Year.
16	61	....	....	....	61
20	561	....	....	....	561
24	24,942	....	....	....	24,942
30	17,216	....	....	....	17,216
36	14,002	....	....	....	14,002
42	61,976	....	....	....	61,976
54	1,851	....	....	....	1,851
Total	120,609	....	....	....	120,609

DISTRIBUTION MAINS—(FEET).

Size in Inches.	In Use First of Year.	Laid During Year.	Abandoned and Taken Up During Year.	Net Change for Year.	In Use Close of Year.
1	5,036	86	261	—175	4,861
1¼	10,759	281	....	+281	11,040
1½	6,773	342	114	+228	7,001
2	19,607	1,854	59	+1,795	21,402
3	437	....	....	....	437
4	64,408	135	314	—179	64,229
6	449,754	1,023	225	+798	450,552
8	252,539	14,144	....	+14,144	266,683
10	45,481	264	....	+264	45,745
12	72,059	1,682	....	+1,682	73,741
16	53,103	....	....	....	53,103
20	7,903	....	....	....	7,903
24	37,962	....	....	....	37,962
30	35,456	....	....	....	35,456
36	17,723	....	....	....	17,723
42	2,070	....	....	....	2,070
Total	1,081,070*	19,811	973	+18,838	1,099,908*

* Includes parallel lines for services only, as follows:—
4"=18,816 feet.
6"=10,741 feet.

APPENDIX IX.

SUMMARY OF SUPPLY AND DISTRIBUTION MAIN PIPE IN USE DECEMBER 1, 1919.

SIZES.	Wrought-Iron.	Cement-Lined.	Cast-Iron.	Steel. L=*Lock-bar.* R=*Riveted.*	TOTALS.
1-inch.....	4,861	....	....	....	4,861
1¼-inch...	11,040	....	....	....	11,040
1½-inch...	7,001	....	....	....	7,001
2-inch.....	21,402	....	....	....	21,402
3-inch.....	437	....	....	....	437
4-inch.....	....	....	45,413	....	45,413
4-inch*....	....	....	18,816*	....	18,816*
6-inch.....	....	....	439,811	....	439,811
6-inch*....	....	....	10,741*	....	10,741*
8-inch.....	....	....	266,683	....	266,683
10-inch....	....	....	45,745	....	45,745
12-inch....	....	....	73,741	....	73,741
16-inch....	....	....	53,164	....	53,164
20-inch....	....	....	8,464	....	8,464
24-inch....	....	29,365	33,475	R 64	62,904
30-inch....	....	....	50,509	L 2,163	52,672
36-inch....	....	....	31,407	R 318	31,725
42-inch....	....	....	2,254	L 61,792	64,046
54-inch....	....	....	....	L 1,851	1,851
Feet.....	44,741	29,365	1,080,223	66,188	1,220,517
Miles....	8.47+	5.56+	204.59—	12.54—	231.16—

* For services only, not for fire protection.

SUMMARY OF GATES AND FIRE HYDRANTS SET AND TAKEN OUT IN 1919.

(Including Changes and Corrections.)

Divisions.	1″	1½″	1½″	2″	2½″	3″	4″	6″	8″	10″	12″	16″	Totals.
Gates Set, 1919, (Including Those Added),	..	1	3	14	3	..	14	85	61	2	6	2	191
Gates Taken Out, 1919, (Including Those Abandoned),	1	1	..	4	1	2	4	7	..	1	1	..	22
Net Gates Added, 1919,	—1	..	+3	+10	+2	—2	+10	+78	+61	+1	+5	+2	+169
Total Gates, Dec. 1, 1918,	..	..	..	..	..	..	..	..	..	..	..	..	5,957
Total Gates, Dec. 1, 1919,	..	..	..	..	..	..	..	..	..	..	..	..	6,126
Public Hydrants Set, 1919,	..	..	..	..	..	..	..	93	..	..	..	..	93
Public Hydrants Taken Out, 1919,	..	..	..	..	..	..	29	28	..	..	..	..	57
Net Public Hydrants Set, 1919,	..	..	..	..	..	..	—29	+65	..	..	..	..	+36
Private Hydrants Set, 1919,	..	..	..	..	..	..	..	+1	..	..	..	..	+1
Total Hydrants, Dec. 1, 1918,	..	..	..	..	..	..	..	..	..	..	..	..	1,988
Total Hydrants, Dec. 1, 1919, (Not including Ludlow).	..	..	..	..	..	..	..	..	..	..	..	..	2,025

APPENDIX XI.

CLASSIFICATION OF FIRE HYDRANTS

CONNECTED TO WATER WORKS SYSTEM, DECEMBER 1, 1919.

Divisions and Sizes	Springfield (City)	Indian Orchard	Wilbraham	Total (not including Ludlow)	Ludlow	Totals
Public:						
8 inch.....	77	..	..	77	..	77
6 inch.....	1,418	52	4	1,474	..	1,474
5 inch.....	19	51	1	71	..	71
4 inch.....	253	19	..	272	19	291
Total public..	1,767	122	5	1,894	19	1,913
Private:						
8 inch.....	..	..	..	..	..	..
6 inch.....	29*	23	..	52*	92	144*
5 inch.....	..	4	..	4	..	4
4 inch.....	69	6	..	75	16	91
Total private.	98*	33	..	131*	108	239*
Total public and private hydrants..	1,865*	155	5	2,025*	127	2,152*

* Includes one hydrant on Little River supply main, Westfield.

APPENDIX XII.

CLASSIFICATION OF STREET WATERING HYDRANTS, WATERING TANKS AND DRINKING FOUNTAINS

CONNECTED TO WATER WORKS SYSTEM, DECEMBER 1, 1919.

Divisions	Springfield (City)	Indian Orchard	Total
Crane Hydrants For Cart Sprinklers			
Owned by Water Works,.....	57	8	65
Owned by Street Department,.....	41	3	44
Total Crane Hydrants (standpipes),.....	98	11	109
Track Hydrants For Car Sprinklers			
Owned by Street Department,....	30	....	30
Special Hydrants For Street-Washing			
Owned by Street Department,.....	45	....	45
Total Street Watering Hydrants,.	173	11	184
Watering Tanks (for animals),.....	10	1	11
Drinking Fountains (for persons),..	13	2	15
Total Watering Tanks and Drinking Fountains,.....	23	3	26

APPENDIX XIII.

SUMMARY OF TOTAL SUPPLY, 1919. SPRINGFIELD, MASS.

(For *Mean Year* Covered by Consumers' Meters.)

Little River Supply.

			Gallons.
Total Supply delivered from Provin Mountain Reservoir (as per Venturi meter),			4,461,710,000
Consumption recorded by Consumers' Meters, as follows:—			
In Springfield:—	Gallons.	Gallons.	
Private Consumers,	3,081,543,326		
Private Consumers (free) (charities),	14,583,646		
Public Uses (uncollectible) (23.3% of such municipal services metered),	217,821,748		
Total in Springfield,	3,313,948,720		
In Wilbraham:—			
Private Consumers,	5,688,187		
Total within Springfield District,		3,319,636,907	
For Agawam:—			
Wholesale Service,	34,736,500		
For East Longmeadow:—			
Wholesale Service,	9,971,325		
For Chicopee:—			
Emergency Service,	31,368,300		
For West Springfield:—			
Emergency Service,	35,131,525		
Total outside Springfield District,		111,207,650	
Total Consumption recorded by Consumers' Meters, Little River Supply,			3,430,844,557
Unmetered Sales, Unmetered Private Fire Supplies, Unmetered Public Uses, and Lost and Unaccounted-for (23.11%),			1,030,865,443

Ludlow Supply.

Consumption recorded by Consumers' Meters, as follows:—		
For Ludlow Manufacturing Associates:—	Gallons.	
Wholesale Service for Village System,	69,112,000	
For other Consumers in Ludlow:—		
Private Consumers and Town Uses (except fire hydrants, etc.),	7,093,028	
Total Consumption recorded by Consumers' Meters, Ludlow Supply,		76,205,028

APPENDIX XIV.

LITTLE RIVER WATER SUPPLY, SPRINGFIELD, MASS.

TOTAL DRAUGHT BY METROPOLITAN DISTRICT, COMPRISING SPRINGFIELD, CHICOPEE,* WILBRAHAM, EAST LONGMEADOW, LONGMEADOW,* AGAWAM, AND WEST SPRINGFIELD.*

METERED AT PROVIN MOUNTAIN. IN MILLION GALLONS.

1919	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
1	9.80	11.14	11.94	12.10	11.90	10.80	13.70	12.65	10.90	13.85	12.07	12.65
2	12.25	10.50	9.60	11.80	12.00	14.21	14.45	11.25	12.90	13.69	10.86	12.54
3	12.00	12.75	12.23	11.80	10.90	14.53	14.80	10.70	13.09	14.16	13.35	12.18
4	10.80	12.20	12.42	11.46	10.37	16.25	11.77	13.25	13.15	12.22	14.13	12.44
5	10.60	11.95	12.20	10.54	12.90	15.47	13.50	12.75	13.25	11.75	13.35	12.55
6	12.65	11.80	12.00	9.91	12.55	13.16	11.00	12.75	12.00	14.24	13.33	11.39
7	12.30	11.80	11.78	12.15	12.22	13.22	13.60	14.00	11.50	14.04	12.98	10.19
8	12.25	10.60	10.55	12.28	12.52	11.15	13.18	12.97	14.05	13.86	11.75	12.66
9	12.20	10.37	9.97	12.10	11.75	12.90	12.96	11.55	12.80	13.52	11.20	12.35
10	12.65	12.55	12.60	11.66	10.48	13.45	12.85	10.70	13.20	14.07	12.90	12.79
11	11.50	12.45	12.05	11.75	10.10	13.80	12.55	13.22	12.90	12.40	11.05	12.51
12	11.15	12.45	12.20	10.65	12.00	13.67	11.50	12.85	12.80	10.95	12.90	12.52
13	13.15	12.00	11.75	9.95	12.28	14.05	11.10	12.75	12.15	11.14	12.65	11.45
14	12.50	11.78	11.40	11.83	12.35	12.20	13.65	12.15	10.95	12.85	12.75	10.04
15	12.40	10.80	10.60	11.80	11.85	11.25	13.00	12.42	13.50	12.98	10.13	13.14
16	12.30	10.95	10.18	11.36	11.80	14.55	12.80	11.60	13.45	12.71	10.13	12.54
17	11.80	12.70	11.71	11.53	10.10	14.12	12.75	10.60	13.60	12.79	13.85	12.87
18	10.87	12.10	12.02	11.15	10.00	14.15	12.85	12.33	15.50	11.28	12.72	13.59
19	10.50	12.60	12.00	10.10	12.55	14.55	11.88	12.85	15.42	10.58	12.41	13.21
20	12.40	12.53	12.20	10.00	12.20	13.20	11.25	12.85	13.50	13.14	12.07	11.66
21	12.10	11.66	11.77	12.17	12.32	12.60	13.26	12.60	12.84	12.88	12.30	10.69
22	11.92	10.25	10.65	12.40	12.10	11.20	12.75	13.10	14.70	12.91	10.92	13.51
23	11.90	10.33	10.05	12.38	12.30	13.56	13.02	11.90	14.22	13.44	9.93	13 27
24	12.10	12.77	12.33	12.05	11.04	15.10	13.23	10.95	13.96	14.10	12.63	11.63
25	10.75	12.30	12.05	11.70	10.36	14.90	13.10	13.40	13.69	12.85	12.43	10.05
26	11.05	12.43	12.00	10.58	13.05	13.50	12.10	13.50	12.78	11.10	11.91	12.79
27	12.65	12.40	11.69	10.02	12.90	13.23	10.75	14.05	13.08	14.42	10.01	11.59
28	12.20	12.14	12.35	12.37	13.10	12.05	13.70	13.55	11.26	14.42	11.86	10.44
29	12.00	.....	11.09	11.95	12.85	10.71	13.05	14.10	14.25	13.33	11.61	12.99
30	12.15	.....	10.33	12.10	10.35	13.61	13.90	11.85	14.28	13.05	10.17	12.66
31	11.92	.....	11.47	.....	11.41	.....	13.10	10.35	.....	12.97	.....	12.75
Total	366.81	330.30	357.18	343.64	364.60	401.14	397.10	385.54	395.67	401.69	360.35	377.64
Aver.	11.83	11.80	11.52	11.45	11.76	13.37	12.81	12.44	13.19	12.96	12.01	12.18

*Emergency connections only.

Total amount for 1919=4,481,660,000 gallons. Daily average=12,280,000 gallons.

APPENDIX XV.

LITTLE RIVER WATER SUPPLY, SPRINGFIELD, MASS.

Water Used by Town of East Longmeadow.

Metered at Springfield—E. Longmeadow Line. In Gallons.

1919	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1	*22,900	*23,300	*18,700	26,000	24,200	*31,500	41,000	17,100	*27,000	24,600	*30,500	30,100
2	25,200	*23,300	*18,800	23,900	25,400	36,100	51,000	*28,200	28,700	20,700	*30,500	26,500
3	23,800	38,000	43,500	23,300	*27,700	35,700	*43,500	*28,300	18,300	19,700	30,200	27,600
4	*30,800	22,600	22,700	28,400	*27,700	39,100	*43,500	*34,300	25,000	*30,300	27,500	34,700
5	*30,800	21,600	21,400	*22,400	26,400	35,100	*50,200	*34,400	26,000	*30,300	34,000	22,100
6	34,900	30,700	25,000	*22,400	25,600	28,600	*50,200	25,400	*30,100	27,300	24,800	*42,900
7	38,800	31,100	22,300	33,200	28,700	*29,400	34,000	28,500	*30,100	26,000	28,100	*42,900
8	52,300	*23,100	*26,800	29,000	20,800	*29,500	30,300	31,400	31,000	34,400	*32,700	*33,100
9	53,100	*23,200	*26,800	24,200	25,600	26,200	23,400	*29,500	25,000	25,400	*32,700	*33,100
10	61,200	16,600	23,600	18,800	*24,200	30,300	31,700	*29,600	28,100	14,800	*30,000	25,800
11	*34,000	33,300	21,800	24,200	*24,300	39,000	27,200	30,400	21,000	*26,900	*30,000	28,800
12	*34,000	17,100	25,400	*28,300	25,800	29,400	*35,300	32,500	24,700	*26,900	28,600	28,100
13	24,000	19,700	23,200	*28,300	34,100	20,900	*35,300	21,700	*32,000	*26,900	29,800	*29,200
14	26,400	23,700	20,200	20,200	32,700	36,600	37,800	23,600	*32,000	*26,900	32,300	*29,200
15	23,700	51,200	*30,400	26,600	17,900	29,000	24,200	37,400	20,200	27,200	*29,200	37,300
16	23,100	15,800	*30,500	17,500	28,800	37,800	36,900	*28,700	21,700	25,200	*29,300	33,400
17	27,100	15,900	14,300	26,900	*23,900	31,400	26,100	*28,800	27,800	24,600	33,100	29,100
18	30,000	20,700	31,700	26,400	*23,900	35,500	53,700	17,800	23,900	*34,900	26,600	26,900
19	23,000	16,900	15,500	*25,500	27,300	34,300	*23,200	22,500	23,600	*35,000	26,100	37,300
20	29,700	38,800	36,700	*25,500	27,700	26,400	*23,200	24,400	*28,500	21,800	25,000	*32,100
21	*23,800	*23,600	21,300	26,700	33,500	*31,900	33,800	38,400	*28,600	25,800	25,600	*32,100
22	*23,900	*23,600	*27,400	36,800	16,500	*32,000	25,200	15,400	24,900	28,900	*27,500	24,900
23	*23,900	23,600	*27,400	17,100	28,900	33,700	29,900	*29,500	30,100	28,200	*27,500	41,700
24	*23,800	30,900	25,300	*23,000	*38,800	47,200	28,600	*29,500	19,300	22,100	27,700	*24,000
25	*23,900	26,900	23,100	*23,000	*38,900	36,900	32,600	30,500	25,900	*28,900	26,000	*24,000
26	*23,900	21,300	28,000	*27,400	34,800	24,100	*29,500	22,400	35,800	*28,900	*28,800	28,700
27	28,000	15,700	14,600	*27,400	26,000	31,300	*29,600	23,000	*22,100	33,700	*28,800	*30,400
28	25,800	21,900	23,600	27,200	33,000	*32,400	31,300	27,300	*22,100	27,600	30,300	*30,400
29	21,700	.....	*28,000	20,700	*31,100	*32,400	27,200	24,600	29,500	30,900	*30,400	34,800
30	22,400	.....	*28,000	23,900	*31,100	32,000	33,700	*27,000	26,500	26,700	*30,500	24,700
31	23,600	.....	22,800	.....	*31,500	.....	35,200	*27,000	.....	23,700	.....	36,800
Total	913,500	694,100	768,800	754,200	866,800	975,700	1,058,300	849,100	789,500	834,600	873,500	962,700
Aver.	29,500	*24,800	24,800	26,000	28,000	32,500	34,100	27,400	26,300	26,900	29,100	31,055

*Daily averages computed from readings taken two or more days apart.

Total amount for 1919=10,340,800 gallons. Daily average=28,300 gallons.

APPENDIX XVI.

LITTLE RIVER WATER SUPPLY, SPRINGFIELD, MASS.

Water Used by Town of Agawam.

Metered on 42″ line—Feeding Hills. In Gallons.

1919	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	70,000	*85,600	*97,000	70,100	68,100	122,000	144,400	101,400	92,100	74,000	*110,300	79,800
2	83,200	*85,600	*97,000	*68,500	84,000	153,100	*159,500	*122,000	92,900	78,900	*110,300	62,900
3	68,100	91,700	21,000	*68,400	*87,300	153,800	*159,600	*122,000	84,400	83,600	*110,400	47,400
4	*84,500	83,100	130,700	69,900	*87,400	223,100	244,800	*78,700	100,500	*93,700	91,300	39,100
5	*84,500	*80,700	64,300	*72,800	102,300	179,400	*191,500	*78,800	87,300	*93,800	73,100	65,400
6	70,200	*80,700	64,700	*72,900	77,700	145,600	*191,500	60,600	*120,700	89,500	116,700	*68,900
7	*61,500	83,200	85,700	76,500	67,300	*132,500	82,400	141,500	*120,800	93,500	95,400	*68,900
8	*61,500	*86,800	*133,100	86,900	79,200	*132,400	143,500	141,400	129,900	81,800	*111,000	*61,300
9	68,800	*86,900	*133,200	58,600	*73,000	85,900	160,500	*75,500	85,900	57,500	*111,000	*61,300
10	62,400	84,900	41,800	52,200	*73,000	112,400	77,400	*75,600	96,400	105,400	86,200	105,000
11	*100,700	*85,800	86,200	79,900	*73,000	107,100	117,700	138,000	73,400	*95,800	143,500	92,100
12	*100,800	*85,900	73,700	*72,400	*72,400	137,800	*94,100	103,600	43,200	*95,800	62,000	64,000
13	84,100	*85,900	60,300	*72,400	106,500	109,000	*94,200	79,100	*84,400	96,200	108,300	†98,100
14	*76,100	*85,900	62,300	68,700	86,800	*171,200	112,100	48,000	*84,400	68,000	84,800	†98,100
15	*76,200	*78,600	*66,400	43,800	106,700	*171,200	91,200	126,400	66,400	115,200	*71,400	†98,100
16	76,700	*78,600	*66,400	61,200	81,600	152,800	101,900	*94,500	91,200	80,900	*71,400	†98,100
17	71,800	85,000	60,800	71,100	*70,200	146,800	95,300	*94,500	99,500	111,300	90,800	†98,100
18	*86,100	77,900	*55,700	62,900	*70,200	153,000	105,200	*94,600	100,500	*112,100	81,600	†98,100
19	*86,200	*67,900	*55,700	*76,200	84,100	163,700	*137,500	104,300	72,900	*112,200	95,300	†98,100
20	80,100	*67,900	51,900	*76,200	61,000	130,000	*137,500	106,300	*46,400	81,500	78,000	†98,100
21	74,000	70,800	69,600	84,000	89,100	*136,400	113,300	103,900	*46,400	84,100	70,100	†98,100
22	74,000	*87,600	60,700	93,100	70,400	*136,400	63,300	123,000	52,000	98,700	*80,000	†98,100
23	89,000	*87,700	60,700	82,900	116,100	120,900	166,200	*123,200	61,800	80,200	*80,100	†98,100
24	74,400	86,400	37,000	57,000	*87,100	239,000	148,900	*123,200	39,300	71,800	75,200	†98,100
25	*108,900	*75,200	89,200	84,500	*87,200	204,300	124,700	109,500	42,200	*121,600	95,400	†98,100
26	*108,900	*75,200	*23,000	*84,500	96,700	139,100	*128,200	138,000	60,500	*121,600	179,600	†98,100
27	81,200	*75,300	*23,000	*84,600	95,900	*170,900	*128,300	83,300	*83,800	94,100	85,200	†98,100
28	*64,700	54,900	170,200	65,500	93,900	*171,000	114,700	87,800	*83,800	103,700	*58,900	†98,100
29	*64,800	.....	*65,800	80,000	101,200	37,200	101,300	119,800	103,400	120,500	*58,900	†98,100
30	140,000	.....	*65,900	80,500	153,500	122,900	96,300	108,500	76,700	70,800	*59,000	†98,100
31	62,700	.....	66,900	.....	118,100	.....	99,300	161,900	.....	99,200	.....	†98,100
Total	2,496,200	2,261,700	2,239,900	2,178,200	2,721,100	4,360,900	3,926,300	3,263,900	2,423,100	2,887,000	2,745,200	2,679,800
Aver.	80,500	80,800	72,300	73,000	87,800	145,000	126,600	105,300	80,800	93,100	91,500	86,400

*Daily averages computed from readings taken two or more days apart.

†Meter out of order, average computed from readings taken Dec. 13-Dec. 31, 1918.

Total amount for 1919 = 34,183,300 gallons. Daily average = 93,700 gallons.

APPENDIX XVII.

LITTLE RIVER WATER SUPPLY, SPRINGFIELD, MASS.

Water Used by Town of West Springfield.

Metered at King's Highway. In Gallons.

1919	Sept.	Oct.
1	.....	684,500
2	.....	*859,400
3	.....	*859,400
4	.....	*859,400
5	.....	*859,400
6	.....	*859,400
7	.....	*859,400
8	.....	*859,500
9	.....	*859,500
10	.....	*859,500
11	.....	*859,500
12	.....	*859,500
13	*200,000	.....
14	*213,300	.....
15	*225,000	.....
16	*1,350,000	.....
17	*1,400,000	.....
18	*1,400,000	.....
19	2,728,900	.....
20	*1,952,400	.....
21	*1,952,400	.....
22	1,395,900	.....
23	1,175,200	538,600
24	750,300	727,100
25	798,900	*680,700
26	818,400	*680,700
27	*809,000	667,300
28	*809,000	620,200
29	846,000	.....
30	1,032,300	.....
31		
Total	19,857,000	14,053,000
Aver.	1,103,200	781,000

*Daily averages computed from readings taken two or more days apart.
Total amount for 1919 (36 days) = 33,910,000 gallons.

APPENDIX XVIII.

LITTLE RIVER WATER SUPPLY, SPRINGFIELD, MASS.

WATER USED BY CITY OF CHICOPEE.

METERED ON NORTH MAIN ST. IN GALLONS.

1919	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	.....	.....	*166,000	142,100	52,300	*124,900	157,800	138,400	112,200	145,900	*385,200	160,100
2	.....	.....	*166,100	44,100	66,600	161,600	289,500	*120,400	261,100	80,000	*385,200	155,600
3	.....	.....	166,800	194,500	30,700	99,500	*110,300	*120,400	154,100	113,000	397,200	162,300
4	.....	.....	239,400	137,700	*43,400	115,900	*110,400	*160,600	136,100	*69,600	815,400	178,000
5	.....	.....	201,200	*38,900	*43,400	152,600	*144,700	*160,600	136,900	*69,600	674,700	156,400
6	.....	.....	181,800	*38,900	52,400	72,600	*144,800	*160,600	*146,600	118,200	671,000	*159,700
7	.....	.....	163,100	89,800	52,400	*151,900	267,100	164,600	*146,600	101,700	570,800	*159,700
8	.....	.....	*110,300	141,300	65,100	*151,900	188,500	160,100	127,900	113,700	*334,800	*197,900
9	.....	.....	*110,300	121,900	68,800	137,600	143,600	*109,600	98,000	104,700	*334,800	*197,800
10	.....	.....	166,800	29,900	*56,300	157,100	188,500	*109,600	150,400	89,800	93,100	199,700
11	.....	.....	243,300	106,200	*56,300	167,600	175,800	174,300	154,100	*83,600	93,100	162,300
12	.....	.....	112,200	113,700	*56,300	176,500	*136,900	145,100	133,900	*83,600	89,800	222,200
13	.....	.....	94,200	*91,600	*56,300	180,300	*136,900	123,400	*157,100	*83,600	93,500	*171,300
14	.....	.....	79,300	*91,700	52,400	141,400	198,200	154,800	*157,100	*83,600	95,700	*171,300
15	.....	.....	*144,000	127,900	21,700	179,500	151,100	160,100	133,900	138,400	101,000	225,100
16	.....	.....	*144,000	89,800	*60,200	180,300	179,500	*108,100	109,200	177,300	*236,400	205,700
17	.....	.....	80,800	141,400	*60,200	216,200	142,900	*108,100	135,400	248,300	*236,400	98,000
18	.....	.....	*149,600	75,600	58,300	168,300	169,800	163,100	149,600	*268,900	*325,700	271,500
19	.....	313,100	*149,600	74,300	92,000	178,000	*118,200	150,400	133,200	*268,900	*325,700	208,000
20	.....	313,100	127,900	*112,200	*67,000	171,300	*118,200	243,900	*95,400	220,700	*325,700	*182,500
21	.....	202,200	147,400	*112,200	*67,100	216,200	172,100	150,400	*95,400	289,500	87,500	*182,500
22	.....	202,200	*66,600	82,300	*67,100	62,800	146,600	169,800	159,300	308,200	*105,100	208,700
23	.....	202,200	*66,600	119,700	87,500	196,700	184,100	*160,100	171,300	325,400	*105,100	205,700
24	.....	291,700	154,100	*201,600	*61,300	178,000	137,600	*160,100	133,200	626,900	157,100	*166,800
25	.....	243,900	190,700	*201,600	*61,300	175,800	108,500	170,500	125,700	*510,500	173,500	*166,900
26	.....	181,800	65,800	*80,400	47,100	195,200	*137,300	151,100	154,800	*510,500	*164,200	226,700
27	.....	181,800	120,500	*80,400	154,100	151,900	*137,300	155,600	*110,700	657,500	*164,200	188,500
28	.....	224,400	52,300	133,200	153,300	*169,800	154,100	137,600	*110,700	778,000	129,400	188,500
29	.....	.....	*42,700	42,600	*114,500	*169,800	140,600	172,000	178,000	423,400	*135,000	200,500
30	.....	.....	*42,600	56,100	*115,200	142,900	148,100	*110,700	112,200	828,100	*135,000	240,900
31	.....	.....	98,100	.....	*124,200	.....	184,000	*110,700	.....	733,100	.....	202,000
Total	.....	2,356,400	4,044,000	3,114,100	2,164,800	4,744,100	4,923,000	4,584,800	4,180,100	8,654,200	7,941,300	5,822,800
Aver.	.....	235,600	130,500	104,000	70,000	158,000	160,000	148,000	139,300	279,200	264,700	187,800

*Daily averages computed from readings taken two or more days apart.
Total amount for 1919 (316 days) = 52,529,600 gallons. Daily average = 156,300 gallons.

APPENDIX XIX.

LITTLE RIVER WATER SUPPLY, SPRINGFIELD, MASS.

Water Used in City of Springfield.

Metered at Provin Mountain. In Million Gallons.

1919	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1	9.71	11.03	11.66	11.86	11.76	10.52	13.36	12.39	10.67	12.92	11.55	12.38
2	12.14	10.39	9.32	11.67	11.82	13.86	13.94	10.98	12.52	12.65	10.33	12.29
3	11.91	12.62	12.00	11.52	10.75	14.24	14.49	10.43	12.83	13.09	12.81	11.94
4	10.69	12.09	12.03	11.22	10.21	15.87	11.37	12.98	12.88	11.17	13.20	12.19
5	10.48	11.85	11.91	10.41	12.73	15.10	13.12	12.48	12.99	10.69	12.57	12.31
6	12.54	11.69	11.73	9.78	12.39	12.91	10.61	13.50	11.70	13.14	12.52	11.12
7	12.20	11.69	11.51	11.95	12.07	12.91	13.22	13.66	11.21	12.96	12.29	9.92
8	12.14	10.49	10.28	12.02	12.36	10.84	12.82	12.64	13.76	12.78	11.27	12.37
9	12.08	10.26	9.70	11.90	11.58	12.64	12.64	11.34	12.59	12.47	10.72	12.06
10	12.53	12.45	12.37	11.56	10.33	13.15	12.55	10.48	12.92	12.99	12.69	12.46
11	11.37	12.33	11.70	11.53	9.95	13.48	12.22	12.88	12.66	11.34	10.78	12.23
12	11.01	12.35	11.99	10.44	11.85	13.32	11.24	12.57	12.61	9.89	12.72	12.20
13	13.04	11.89	11.57	9.76	12.08	13.74	10.83	12.53	11.68	10.94	12.42	11.15
14	12.39	11.67	11.24	11.65	12.18	11.85	13.30	11.93	10.46	12.66	12.54	9.74
15	12.30	10.67	10.36	11.60	11.70	10.87	12.74	12.09	13.05	12.69	9.93	12.78
16	12.20	10.86	9.94	11.19	11.63	14.18	12.48	11.37	11.88	12.42	9.79	12.20
17	11.70	12.60	11.55	11.29	9.95	13.72	12.49	10.36	11.93	12.41	13.49	12.65
18	10.75	12.00	11.78	10.98	9.85	13.79	12.52	12.06	13.83	10.87	12.29	13.18
19	10.39	12.20	11.78	9.93	12.35	14.18	11.60	12.58	12.47	10.17	11.96	12.87
20	12.29	12.11	11.98	9.78	12.04	12.87	10.97	12.48	11.37	12.82	11.64	11.35
21	12.01	11.36	11.53	11.95	12.13	12.22	12.95	12.31	10.73	12.48	12.12	10.38
22	11.81	9.94	10.50	12.18	11.94	10.97	12.51	12.79	13.07	12.47	10.71	13.18
23	11.79	10.02	9.90	12.16	12.06	13.21	12.64	11.59	12.79	12.46	9.72	12.92
24	12.00	12.36	12.11	11.77	10.85	14.64	12.91	10.63	13.02	12.65	12.37	11.34
25	10.62	11.95	11.75	11.39	10.17	14.49	12.84	13.09	12.69	11.51	12.13	9.76
26	10.90	12.15	11.88	10.39	12.87	13.14	11.80	13.19	11.70	9.76	11.54	12.44
27	12.54	12.13	11.53	9.83	12.62	12.88	10.45	13.78	12.06	12.97	9.73	11.27
28	12.11	11.84	12.10	12.14	12.83	11.68	13.40	13.29	10.23	12.90	11.64	10.12
29	11.91	.....	10.95	11.81	12.61	10.47	12.78	13.78	13.09	12.76	11.39	12.66
30	11.99	.....	10.19	11.94	10.05	13.32	13.62	11.61	13.03	12.12	9.94	12.30
31	11.84	.....	11.28	.....	11.14	.....	12.78	10.05	.....	12.11	.....	12.41
Total	363.40	324.99	350.12	337.60	358.85	391.06	387.19	376.84	368.42	375.26	348.80	368.17
Aver.	11.72	11.61	11.29	11.25	11.58	13.04	12.49	12.16	12.28	12.11	11.63	11.88

N. B.—About eighty houses in Wilbraham supplied with Little River water.
Total amount for 1919=4,350,700,000 gallons. Daily average=11,920,000 gallons.

APPENDIX XX.

LUDLOW RESERVOIR SUPPLY. SPRINGFIELD, MASS.

WATER USED BY LUDLOW MANUFACTURING ASSOCIATES.

METERED AT LUDLOW MAIN No. 1. IN GALLONS.

1919	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	107,000	*134,000	*123,000	143,000	289,000	*138,000	188,000	179,000	326,000	513,000	*143,000	229,000
2	293,000	*134,000	*124,000	137,000	406,000	180,000	219,000	*167,000	202,000	346,000	*144,000	224,000
3	187,000	155,000	137,000	151,000	*305,000	228,000	*210,000	*168,000	172,000	264,000	197,000	220,000
4	*130,000	199,000	143,000	144,000	*305,000	215,000	*211,000	181,000	199,000	*133,000	201,000	206,000
5	*130,000	165,000	143,000	*127,000	390,000	192,000	*206,000	157,000	196,000	*134,000	214,000	230,000
6	169,000	206,000	134,000	*127,000	351,000	177,000	*206,000	167,000	*173,000	145,000	217,000	*165,000
7	198,000	149,000	150,000	193,000	247,000	*286,000	171,000	170,000	*174,000	148,000	234,000	*165,000
8	173,000	*122,000	*128,000	150,000	241,000	*287,000	183,000	202,000	210,000	149,000	*168,000	228,000
9	177,000	*123,000	*129,000	136,000	138,000	142,000	167,000	*166,000	162,000	141,000	*169,000	201,000
10	181,000	265,000	366,000	135,000	*131,000	155,000	149,000	*167,000	173,000	163,000	227,000	204,000
11	*297,000	160,000	184,000	147,000	*132,000	153,000	166,000	187,000	162,000	*135,000	179,000	225,000
12	*298,000	134,000	150,000	*136,000	145,000	156,000	*156,000	172,000	168,000	*136,000	226,000	210,000
13	230,000	132,000	136,000	*136,000	129,000	211,000	*157,000	185,000	*163,000	129,000	238,000	*180,000
14	223,000	137,000	139,000	136,000	174,000	*178,000	182,000	164,000	*163,000	154,000	209,000	*181,000
15	176,000	*137,000	*119,000	132,000	144,000	*178,000	162,000	179,000	168,000	166,000	*154,000	217,000
16	165,000	*138,000	*120,000	128,000	150,000	217,000	152,000	*177,000	190,000	172,000	*155,000	233,000
17	175,000	131,000	136,000	142,000	*125,000	202,000	170,000	*177,000	165,000	306,000	207,000	205,000
18	*144,000	134,000	134,000	131,000	*126,000	205,000	184,000	236,000	162,000	*277,000	211,000	236,000
19	*145,000	130,000	148,000	*129,000	147,000	186,000	*172,000	172,000	170,000	*277,000	222,000	239,000
20	181,000	128,000	132,000	*130,000	147,000	182,000	*172,000	179,000	*149,000	222,000	207,000	†170,000
21	172,000	137,000	146,000	146,000	146,000	*162,000	200,000	233,000	*150,000	243,000	241,000	†170,000
22	176,000	*125,000	*126,000	150,000	148,000	*163,000	163,000	257,000	175,000	228,000	*154,000	214,000
23	171,000	*126,000	*126,000	143,000	346,000	191,000	174,000	*186,000	181,000	224,000	*155,000	202,000
24	177,000	143,000	138,000	128,000	*124,000	221,000	196,000	*187,000	169,000	253,000	250,000	*150,000
25	*139,000	146,000	143,000	153,000	*125,000	200,000	193,000	201,000	165,000	*203,000	227,000	*150,000
26	*140,000	135,000	133,000	*132,000	133,000	167,000	*172,000	169,000	179,000	*204,000	*160,000	229,000
27	151,000	129,000	149,000	*133,000	146,000	171,000	*173,000	165,000	*228,000	225,000	*161,000	*163,500
28	384,000	144,000	155,000	213,000	153,000	*157,000	190,000	173,000	*229,000	243,000	210,000	*163,500
29	391,000	.....	*130,000	134,000	*152,000	*157,000	184,000	317,000	179,000	203,000	*159,000	227,000
30	204,000	.....	*130,000	149,000	*152,000	178,000	178,000	*345,000	172,000	197,000	*160,000	201,000
31	148,000	.....	143,000	.....	*138,000	.....	169,000	*346,000	.....	303,000	.....	*174,000
Total	6,032,000	4,098,000	4,494,000	4,271,000	5,979,000	5,635,000	5,575,000	6,131,000	5,474,000	6,636,000	5,799,000	6,212,000
Aver.	195,000	146,000	145,000	142,000	193,000	188,000	180,000	198,000	182,000	214,000	193,000	200,000

*Daily averages computed from readings taken two or more days apart.

†=Charts planimetered. Dial reading incorrect.

Total amount for 1919=66,336,000 gallons. Daily average=184,000 gallons.

APPENDIX XXI.

LITTLE RIVER WATER SUPPLY, SPRINGFIELD, MASS.

Operating Details of West Parish Filters—1919.

E. C. Cotton, Superintendent.

L. G. Carlton, Assistant Engineer.

FILTERS SCRAPED

MONTH	Number	Cubic Yards of Sand Removed			Depth in Inches		
		Maximum	Minimum	Average	Maximum	Minimum	Average
January	4	140	140	140	2.0	2.0	2.0
February	0	.....	.....	.....	.....	....	....
March	3	175	140	152	2.5	2.0	2.2
April	3	140	140	140	2.0	2.0	2.0
May	5	*1120	70	*322	*16.0	1.0	*4.6
June	6	140	70	117	2.0	1.0	1.7
July	2	140	140	140	2.0	2.0	2.0
August	1	140	140	140	2.0	2.0	2.0
September	4	140	140	140	2.0	2.0	2.0
October	4	*1820	105	*551	*26.0	1.5	*7.9
November	2	140	140	140	2.0	2.0	2.0
December	4	210	105	149	3.0	1.5	2.1
Year	38	*1820	70	205	*26.0	1.0	2.9

FILTER RUNS AFTER SCRAPINGS

MONTH	Number Ending in	Million Gallons Filtered			Duration in Days		
		Maximum	Minimum	Average	Maximum	Minimum	Average
January	2	111.48	97.92	104.70	57	48	52
February	1	104.86	104.86	104.86	22	22	22
March	4	162.87	63.93	114.38	72	48	61
April	1	75.77	75.77	75.77	33	33	33
May	5	119.46	63.16	80.19	62	29	40
June	6	71.19	54.83	62.72	31	19	24
July	3	82.76	58.69	73.41	33	25	30
August	4	94.54	74.60	82.23	37	33	35
September	0	.....	.....	.....	.....	....	....
October	5	116.22	54.90	84.97	45	24	34
November	3	74.32	62.27	69.42	29	27	28
December	1	54.21	54.21	54.21	26	26	26
Year	35	162.87	54.21	81.75	72	19	36

*The sand was wholly removed and washed in filter No. 2 in May, and in No. 5 in Oct.

Operating Details of West Parish Filters—1919—Concluded.

FILTER RUNS AFTER RAKINGS

Month	Number Ending in	Million Gallons Filtered			Duration in Days		
		Maximum	Minimum	Average	Maximum	Minimum	Average
January	3	94.22	47.21	78.51	51	27	42
February	0	.....	.....	.....	.....	.....	.....
March	2	145.14	65.70	105.42	54	37	45
April	3	63.93	25.99	46.13	29	13	21
May	1	57.86	57.86	57.36	27	27	27
June	1	52.79	52.79	52.79	32	32	32
July	1	53.27	53.27	53.27	21	21	21
August	1	71.28	71.28	71.28	32	32	32
September	5	112.08	70.51	86.66	52	34	43
October	1	27.38	27.38	27.38	15	15	15
November	2	64.71	46.48	55.60	28	21	25
December	8	75.55	52.59	64.36	36	28	31
Year	23	145.14	25.99	68.26	54	13	29

FILTERS RESANDED

Number	Cubic Yards of Sand Replaced			Depth in Inches		
	Maximum	Minimum	Average	Maximum	Minimum	Average
*2	3080	3080	3080	44	44	44

MILLIONS OF GALLONS

Filtered	To Sand Washer	Per Cent
4514.08	22.77	0.50

COST PER MILLION GALLONS DELIVERED TO CITY

	Supervision and Laboratory	Sand Handling	Coagulant	Grounds and Buildings	Equipment	Miscellaneous	D'crease in Inventory	Total
Labor	$0.94	$1.15	$0.30	$1.17	$0.57	$0.19	.....	$4.32
Materials	.21	.17	.21	.18	.65	.06	$0.16	1.64
Total	$1.15	$1.32	$0.51	$1.35	$1.22	$0.25	$0.16	$5.96

APPENDIX XXII.

LITTLE RIVER WATER SUPPLY.

SPRINGFIELD, MASS.

E. C. COTTON, Superintendent.

OPERATING COSTS OF WEST PARISH FILTERS — 1919.

L. G. CARLTON, Assistant Engineer.

CLASSIFICATION.	JAN.	FEB.	MAR.	APRIL.	MAY.	JUNE.	JULY.	AUG.	SEPT.	OCT.	NOV.	DEC.	YEARLY TOTALS.
Care of,—													
Grounds,	$27.88	$108.29	$306.33	$241.37	$313.66	$134.36	$282.27	$366.36	$194.28	$185.04	$91.38	$135.72	$2,386.94
Buildings,	16.40	45.92	13.12	4.92	26.24	47.56	3.60	319.23	70.65	159.00	45.45	36.00	788.09
Equipment,	90.05	153.65	214.38	144.22	137.69	29.52	119.32	156.00	141.15	94.20	133.26	90.48	1,503.92
Telephone,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Supervision,	249.72	249.72	274.65	249.72	274.65	249.72	249.72	274.65	249.72	249.72	274.65	249.72	3,096.36
Laboratory,	78.72	82.00	101.68	82.00	101.68	82.00	82.56	108.00	90.00	90.00	108.00	90.00	1,096.64
Coagulant,—	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hauling,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Storing,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Manufacturing,	82.19	39.20	93.89	92.14	132.17	31.57	124.28	175.62	188.67	136.80	128.25	109.80	1,334.58
Stableman,	78.72	78.72	98.40	78.72	98.40	78.72	82.56	108.00	90.00	86.40	108.00	86.40	1,073.04
Watchmen,	156.80	117.60	196.00	156.80	196.00	156.80	163.60	213.60	177.60	168.00	210.60	168.00	2,081.40
Ice Harvest,	104.79	218.83	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	323.62
Vacation Pay Roll,	69.77	39.36	33.60	.....	.....	.....	60.96	44.64	21.60	43.20	43.20	152.64	508.97
Total,	$955.04	$1,133.29	$1,332.05	$1,049.89	$1,280.49	$810.25	$1,168.87	$1,766.10	$1,223.67	$1,212.36	$1,142.79	$1,118.76	$14,193.56
Filter No. 1,—													
Cleaning,	.....	$9.96	$8.72	$24.15	$66.47	$94.95	.....	$11.40	$90.96	$10.92	.....	$154.92	$472.44
Resanding,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Filter No. 2,—													
Cleaning,	$23.25	.....	99.85	.....	194.30	112.26	$13.65	.....	67.32	.....	$75.51	.....	586.14
Resanding,	.....	.....	.....	.....	33.09	786.12	.....	.....	.....	.....	.....	.....	819.21
Filter No. 3,—													
Cleaning,	21.43	.....	64.73	8.27	69.75	21.47	70.06	12.72	63.72	52.80	8.19	.....	393.14
Resanding,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Filter No. 4,—													
Cleaning,	69.75	.....	9.99	59.77	20.69	.....	99.87	9.00	9.12	65.52	9.54	64.80	418.05
Resanding,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Filter No. 5,—													
Cleaning,	59.91	69.75	11.63	83.04	9.99	82.81	65.52	10.80	.....	78.12	468.12	.....	939.69
Resanding,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	885.12	.....	885.12

Filter No. 6,— Cleaning,.....	91.06	.....	58.14	71.39	33.96	89.65	11.40	72.96	.....	90.96	13.14	109.20	641.86
Resanding,.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Pay Rolls,	$1,220.44	$1,212.99	$1,585.11	$1,296.51	$1,708.74	$1,997.51	$1,429.37	$1,882.98	$1,454.79	$1,510.68	$2,602.41	$1,447.68	$19,349.21
Bills for Mdse. Bought,—													
Grounds and Buildings,.....	.....	.....	$136.40	$159.14	$8.95	$45.97	$29.98	$2.83	$267.25	$36.77	$110.21	$17.14	$814.64
Freight and Express,.....	$3.25	$1.54	.....	4.55	.....	6.98	.90	49.36	136.94	26.44	1.47	11.60	243.03
Coagulant,.....	8.69	.....	281.50	55.22	89.07	.....	.....	29.65	476.83	.....	.....	.....	940.96
Stock and Tools,	37.63	5.28	50.03	8.25	22.20	93.55	14.46	60.62	11.65	16.10	27.59	11.48	358.84
Sand Washer, Hose, Valves, Fittings,.....	25.30	9.35	.....	.....	.....	4.08	30.65	.....	.....	650.00	5.04	22.42	746.84
Laboratory Supplies,.....	16.70	36.30	25.96	206.41	28.63	87.56	16.72	8.73	42.36	45.81	147.23	26.50	688.91
Live Stock Account,... .	154.10	154.22	85.42	76.69	101.10	187.45	5.00	56.16	37.30	219.61	108.40	5.00	1,190.45
Repairs to Equipment,...	22.30	94.41	205.11	.....	128.83	14.80	2.00	.....	.....	2.00	10.00	.....	479.45
Auto Account,...	88.34	16.88	69.94	108.97	30.49	173.42	80.10	52.63	32.10	57.92	18.42	154.82	884.03
N. E. Telephone,.	20.08	.....	20.23	8.94	.....	28.09	15.10	15.90	.....	15.85	16.00	15.25	155.44
Miscellaneous,...	.....	.....	.....	.....	.....	.....	.....	.....	105.69	.....	.....	.....	105.69
Total Bills,....	$376.39	$317.98	$874.59	$628.17	$409.27	$641.90	$194.91	$275.88	$1,110.12	$1,070.50	$444.86	$264.21	$6,608.28
Grand Total, Pay Rolls and Bills,..	$1,596.83	$1,530.97	$2,459.70	$1,924.68	$2,118.01	$2,639.41	$1,624.28	$2,158.86	$2,564.91	$2,581.18	$3,046.77	$1,711.89	$25,957.49
Million Gallons as Metered at Provin Mountain,...	366.81	330.30	357.18	343.64	364.60	401.14	397.10	385.54	395.67	401.69	360.35	377.64	4,481.66

Total Bills and Pay Rolls,.....	$25,957.49
Decrease in Inventory,.....	736.75
Net Total Cost of Filter Operations—1919,.....	$26,694.24
Net Total Cost of Plant and Accessories,.....	$330,715.56
Interest at 4%,.....	$13,228.62
Total Cost of Operation, including Interest,.....	$39,922.86

Net Cost per Million Gallons Delivered to City, Operation and Maintenance only,.....	$5.96
Cost, including Operation, Maintenance and Interest, per Million Gallons,.....	$8.91
Cost per Million Gallons, Exclusive of Charges on Grounds, Buildings, Autos, and Stable,.....	$4.36

APPENDIX XXIII.

MUNICIPAL WATER WORKS, SPRINGFIELD, MASS.

TABLE OF RAINFALL—1919.

IN INCHES.

Location	Borden Brook Reservoir, Granville	West Parish Filters, Westfield	Provin Mountain Reservoir, Agawam	Ludlow Reservoir		Administration Building, Springfield	U. S. Armory, Springfield
				Gate House, Ludlow	Filters, Ludlow		
Records by—	Caretaker, S.W.W.	Superintendent, S.W.W.	Caretaker, S.W.W.	Caretaker, S.W.W.	Caretaker, S.W.W.	City Engineer	U. S. A.
January,.....	2.52	1.87	2.19	1.70	1.94	1.84	2.17
February,.....	4.06	3.72	4.59	2.86	3.14	3.37	3.40
March,.....	5.61	5.96	5.10	5.58	5.32	3.65	3.85
April,.....	3.67	2.85	2.87	2.70	2.76	2.18	2.10
May,.....	8.76	7.08	6.78	5.84	5.58	2.91	3.78
June,.....	1.04	1.55	1.47	1.98	2.06	2.13	2.63
July,.....	5.00	5.83	4.21	3.49	3.76	6.24	6.27
August,.....	3.80	2.86	2.72	3.26	2.56	1.64	2.04
September,.....	6.11	5.44	5.57	5.82	4.72	5.27	5.58
October,.....	2.52	2.27	2.06	1.31	1.67	1.87	2.25
November,.....	7.06	7.23	6.69	5.11	4.91	4.11	4.93
December,.....	2.70	2.26	2.23	1.56	2.16	1.86	1.77
Totals,.....	52.85	48.92	46.48	41.21	40.58	37.07	40.77
Mean,.....	4.40	4.08	3.87	3.43	3.38	3.09	3.40

STREETS AND ENGINEERING

REPORT

OF THE

DEPARTMENT OF STREETS AND ENGINEERING

FOR THE FISCAL YEAR ENDING NOVEMBER 30, 1919

ADMINISTRATIVE

SPRINGFIELD, MASS., December 30, 1919.

To the Honorable City Council:—

In accordance with the provisions of Chapter 19, Section 5, of the Revised Ordinances, I take pleasure in submitting to your Honorable Body, a report in detail covering the activities of the Department of Streets and Engineering for the fiscal year of 1919. As a part of and supplementing the report of your superintendent are included the reports of the deputy heads of the several divisions comprising this department.

The Department of Streets and Engineering has been obliged to adjust itself to constantly changing conditions throughout the year which have tended to upset with frequency any established policy or work program. The anticipated surplus of labor due to the cessation of hostilities did not materialize and it has been a matter of considerable difficulty at times to find help enough to carry on our work. This shortage of labor is at the present time a matter of much concern to your superintendent. In so far as possible, the department has utilized every mechanical device at its disposal to overcome the difficulties encountered, and the purchase and use of such machinery as may be practical in an effort to overcome our labor difficulties is most earnestly recommended. During the past year special attention has been given to the branches of our work which required readjustment. In some instances a change in the method of operation has resulted in a considerable saving.

In continuance of the policy adopted several years ago of caring for main arteries of travel, in preference to streets of lesser consequence, in residential and outlying districts, the department has laid on our main east and west thoroughfare (State Street) a type of pavement which is admittedly as near the ideal type of permanent pavement as can be found at the present time. The recommendations of the deputy superintendent concerning the extension westerly of this work is most heartily indorsed. It is the belief and the hope of your superintendent that, providing sufficient funds are available, cheaper and less durable pavements will be abandoned in favor of pavements of the so-called permanent type.

With the increasingly prohibitive cost of centrally located homes, coupled with rapid growth of our city and the now common use of automobiles, your department should place in as good condition as possible with the money available, all so-called country roads, in order that the public may be able to take advantage of one solution of the rent problem, by utilizing land in the outlying sections of our city to build upon. More attention and money has been spent this year on general maintenance and repairs of your streets than in the past in hopes that we may be able to extend the life of existing types of pavements, in addition to offering the public better and more acceptable surfaces to travel over at a minimum cost. This policy I believe to be an all important one, for with the increasing cost of new construction work it stands us well in hand to save what we have. In spite of the difficulty of securing adequate labor, your residential streets have been kept well cleaned, while extensive use of street flushers, street car and automobile truck, have kept our paved streets in an exceptionally clean condition. It will be necessary to supplement our present apparatus for this work by the addition of one new unit of the most efficient type as the increasing areas to be cared for imposes too great a burden on our present equipment. The dust problem has been successfully solved by the application of road oils in a manner generally pleasing to the public, as complaints concerning use of oils this year have been almost negligible.

The retention of Sewer engineers of recognized ability for the purpose of studying the sewer problems of our city and the construction of the first section of a storm water system is, in the opinion of your superintendent, a matter of the greatest importance and consideration. It is to be hoped that sufficient money be provided for the continuance of construction work on our much needed storm water system. The impossibility of securing adequate labor for trench work makes it imperative that machinery adapted for this work be purchased at an early date.

The Engineering Department has successfully completed the year's work and rendered excellent service in the maintenance and rebuilding of several of our bridges. In this connection it is of greatest importance that your attention be drawn to the needs of Springfield in its bridge problem. The construction of three new trusses and the strengthening and repair of the short spans of the Old Toll Bridge has relieved temporarily a situation which cannot be overlooked. Examination by competent engineers shows conclusively that the burden thrust upon the North and South End bridges is fast reaching the limits of safety. Repairs and replacements of members on both these bridges must be made immediately. The Engineering staff is constantly on the alert for failure, and it is only by constant watchfulness that the safety of the public is assured. The successful design and completion of an addition to the rock trestle at our Summer Street Yard is both a credit to the Engineering Department and a matter of considerable saving in the handling of materials. The topographical work carried on in the past few years has been of great value to our advisory engineers, and has been continued throughout the past year.

Installation of new lighting units by the Street Lighting Division has, by reason of the necessity for economy, been curtailed to a considerable extent the past year, but in general your city has been well lighted with a minimum of trouble. It is to be hoped, however, that means may be found to provide for a considerable extension of the street lighting work as, by reason of the constantly growing population, and the corresponding increase in traffic on our streets, the danger of accidents due to inadequate lighting is bound to increase. An effort has been made to help expedite traffic in the congested down-town sections by flood lighting traffic officers on duty. While the experiment has generally pleased it would seem to be of far greater value to install sufficient new arc lamps to meet the demand for better illumination at such points.

The Waste Disposal Division has rendered service to the public which in many ways is distinctively according to Springfield's ideals. In few if any cities do the householders have their ashes and rubbish removed from their cellars. Considering the possibility of trouble from such a system it is a credit to this division and the employees thereof that more misunderstandings do not occur, or that complaints generally are not more serious. The division has operated with difficulties at times, due to the shortage of labor. An advantageous contract has been entered into this year for the operation of the Logan Street Incinerator at a considerable saving to the city, while a contract for the disposal of all garbage collected by the city collector is under consideration. Should these arrangements

prevail during the coming year the department will be relieved of considerable expense and trouble in their waste disposal division, to the general betterment of the service.

In conclusion I desire at this time to express my sincere appreciation of the courtesies extended to me by the Mayor, Arthur A. Adams, Alderman John J. Lester and Councilman Emile J. Erard, comprising your Board of Supervisors, and further, to thank the employees of the entire department for their loyalty and interest in the affairs of the department.

Respectfully submitted,

ROBERT P. MARSH,
Superintendent of Streets and Engineering.

INVENTORY.

DEPARTMENT OF STREETS AND ENGINEERING.

LANDS.

Abbe avenue, at crossing,	$10,400.00
Ashes and Garbage Station, State street,	28,800.00
Birnie avenue extension, easterly side,	1,000.00
City Yard, Logan street,	10,800.00
City Yard, Pecousic avenue, east side,	19,000.00
City Yard, Pecousic avenue, west side,	11,000.00
City Yard, Summer street,	153,400.00
Gravel Bank, Boston road,	450.00
Gravel Bank, Five Mile pond,	4,500.00
Gravel Bank, Island Pond,	300.00
Longhill street dump,	8,000.00
Trap Rock Quarry, Westfield,	3,744.00
Salable Land:	
Abbe avenue, Fisk avenue and B. & M. R. R. slopes,	.....
Adams street, westerly corner of Dwight street extension,	1,200.00
67 Arch street,	1,000.00
Carew street, at Eddy street,	800.00
Carew street, between Baltimore and Fleetwood,	600.00
Dwight street, Mack lot,	20.00
Dwight street, Mahoney, Perkins and Alden lots,	29,000.00
Dwight street, Collins lot,	14,000.00
Dwight street, Leary lot,	29,000.00
Dwight street, Puffer lot,	15,300.00
Dwight street, north of C.,	200.00
Fulton street, Menard lot,	1,600.00
Fulton street, Barrett lot,	1,700.00
Fulton street, Connecticut River R. R. lot,	1,700.00
Fulton street, King lot,	1,300.00
Fulton street, Albert lot,	2,700.00
Fulton street, Phillips lot,	5,150.00
Fulton street, Beausang lot,	2,650.00
Fulton street, Farrell lot, corner Clinton,	4,000.00
Fulton street, Haley lot,	1,500.00
Fulton street, Smith Realty Trust Co.,	1,600.00
Fulton street, O'Connor lot,	1,850.00
Fulton street, Treuchet lot,	1,850.00
Fulton street, Goldrick lot,	1,400.00
Fulton street, Ryan lot,	1,000.00
Fulton street, Langford lot,	2,500.00
Fulton street, P. J. Mitchell lot,	6,000.00
Fulton street, K. C. Mitchell lot,	800.00
Fulton street, J. J. Mitchell lot,	900.00
Fulton street, Flanagan lot,	4,000.00
Locust street, rear of lots 1, 4, 5, 6, 7, 8, 9,	2,070.00
Locust street, northerly side, near Belmont avenue,	300.00
Marble street, westerly corner Dwight street extension,	2,000.00

Marble street, easterly corner Dwight street extension,	$1,000.00	
Marshall street, Bailey lot,	300.00	
Marshall street, Lewis lot,	350.00	
Page boulevard,	400.00	
Pecousic avenue, between Pecousic avenue and South street,	2,000.00	
Switzer avenue, corner County street,	200.00	
Page boulevard, east side,	5.00	
		$395,339.00

BUILDINGS.

Emery street shop,	$23,400.00	
Logan street incinerator,	25,000.00	
Pecousic avenue, east side:		
Barn, old,	500.00	
House,	1,000.00	
Machine shop,	2,300.00	
Sheds,	800.00	
Pecousic avenue, west side:		
Stable,	20,000.00	
Wagon shed,	2,000.00	
State street:		
Dwelling,	1,200.00	
Barn,	800.00	
Storehouse,	1,700.00	
Sheds,	100.00	
Garbage plant,	20,000.00	
Summer street:		
Shed,	700.00	
Asphalt Plant Building,	3,000.00	
Barn,	8,000.00	
Office,	1,000.00	
Garage,	8,500.00	
Repair shop,	5,500.00	
Shed,	900.00	
Shed for autos,	1,600.00	
Dwelling,	900.00	
Trap rock bins and trestle,	25,452.00	
Cement shed and platform,	300.00	
West street incinerator,	7,000.00	
		$161,652.00

EQUIPMENT.

Asphalt plant,	$11,989.37
Automobiles,	4,676.97
Blacksmith shop,	1,070.00
Carpenter shop,	611.05
Concrete mixers,	4,181.24

Engineering division,	$3,223.35	
Garage,	1,558.57	
Harnesses and fittings,	1,679.98	
Highway and road machinery,	3,826.72	
Horses,	8,110.00	
Laboratory,	370.44	
Machine shop,	653.05	
Merg plant,	6,808.00	
Motorcycles,	475.00	
Motor trucks,	17,300.96	
Motor truck equipment,	2,475.00	
Office furniture, etc.,	2,236.65	
Patterns,	278.00	
Sewer equipment,	956.00	
Sleighs and sleds,	1,559.19	
Stables and yards,	5,084.40	
Steam rollers,	13,254.02	
Steam shovel,	1,221.09	
Steam truck,	3,600.00	
Street cleaning,	2,413.52	
Street lighting,	918.00	
Wagons and carts,	5,608.77	
Watering carts,	727.79	
		$106,817.13

Small Tools and Perishable Equipment.

Small tools and perishable equipment,	$9,519.43

Supplies and Materials.

Car tickets,	$17.30	
Granite block account,	1,114.50	
Granite curbing account,	239.06	
In stock at Summer street yard,	23,329.85	
In stock at Emery street, South End, Logan street, and State street,	6,700.33	
In stock at Indian Orchard yard,	281.58	
Wood block account,	395.00	
		$32,077.62

Recapitulation.

Lands,	$395,339.00
Buildings,	161,652.00
Equipment,	106,817.13
Small tools and perishable equipment,	9,519.43
Supplies and materials,	32,077.62
Grand total,	$705,405.18

RECONCILIATION OF "EXPENDITURES FROM APPROPRIATIONS" TO AMOUNT OF "COST OF WORK PERFORMED."

"Cost of Work Performed" as per statement,.....		$1,062,750.98
Deduct		
Charge for "Depreciation of Equipment" not included in charges against appropriation,	$17,517.19	
Expenditures for "Capital Accounts" not re-appropriated,.....	6.63	
		17,523.82
		$1,045,227.16
Add		
Overhead and equipment expense unapplied,.	$25,643.66	
Purchase and manufacture of equipment,....	24,452.82	
Purchase and manufacture of small tools,....	6,664.80	
		56,761.28
Adjustment to balance,.....		1,366.86
		$1,103,355.30

STATEMENT OF EXPENDITURES FROM APPROPRIATIONS.

Title of Account.	Original Appropriation.	Credit Transfers.	Debit Transfers.	Total Amount Available.	Expended.	Unexpended Balance.	Encumbrances.	Unencumbered Balance.
Administration	$35,054.25	$361.00	.....	$34,693.25	$34,422.42	$270.83	$162.50	$108.33
Engineering	29,724.71	3,630.00	.....	26,094.71	25,723.12	371.59	4.80	366.79
Sewers	68,969.74	.....	$17,266.10	86,235.84	85,396.10	839.74	110.00	729.74
Garbage	27,446.18	.....	1,621.00	29,067.18	29,018.55	48.63	.....	48.63
Ashes and Refuse	112,594.98	.....	5,860.00	118,454.98	118,404.61	50.37	.....	50.37
Highways	250,006.34	.....	23,802.83	273,809.17	271,292.21	2,516.96	.....	2,516.96
Street Cleaning	91,911.62	.....	4,450.00	96,361.62	94,349.16	2,012.46	.....	2,012.46
Bridges	30,094.51	.....	26,420.58	56,515.09	56,277.93	237.16	.....	237.16
Sidewalks and Curbing	42,400.00	7,258.95	.....	35,141.05	34,961.49	179.56	.....	179.56
Street Sprinkling	13,326.25	1,489.00	.....	11,837.25	11,788.00	49.25	.....	49.25
Street Oiling	25,418.42	.....	4,550.00	29,968.42	29,926.20	42.22	.....	42.22
Street Lighting	142,418.33	.....	300.00	142,718.33	142,700.25	18.08	3.00	15.08
Repair Shop	26,057.52	200.00	.....	25,857.52	25,735.17	122.35	.....	122.35
Stables and Yards	124,601.82	.....	19,000.00	143,601.82	142,360.09	1,241.73	264.40	977.33
WS-215—Stock	105,575.93	.....	.....	105,575.93	35,957.85	69,618.08	10,472.50	59,145.58
Credits available for reappropriation	.....	94,032.43	94,156.29	123.86	.....	123.86	.....	123.86
Total	$1,126,600.60	$106,971.38	$197,426.80	$1,217,056.02	$1,139,313.15	$77,742.87	$11,017.20	$66,725.67

CAPITAL ACCOUNTS.

Title of Account.	Appropriation.	Credit Transfers.	Debit Transfers.	Total Amount Available.	Expended.	Unexpended Balance.
Dwight street underpass,	$27,142.55	.....	.....	$27,142.55	.....	$27,142.55
Dwight street widening,	88,583.23	$700,000.00	.....	788,583.23	$636,298.05	152,285.18
Fulton street widening,	20,934.20	34,973.34	.....	55,907.54	55,907.54	.....
Surface sewer,	.....	50,000.00	.....	50,000.00	29,223.15	20,776.85
Water street widening,	.....	7,415.41	.....	.....	7,415.41	.....
Water street underpass,	48,717.31	.....	.....	48,717.31	17,500.00	31,217.31
Wayfarers' Lodge,	1,153.99	.....	$1,153.99	.....	.....	.....
Total,	$186,531.28	$792,388.75	$1,153.99	$970,350.63	$746,344.15	$231,421.89

CLASSIFICATION OF EXPENSE.

SEWERS.	Cost of Work Performed.												
	Labor, Material, Equipment, and Other Charges.											Total Work Units.	Unit Cost.
CONSTRUCTION. CITY COST.	Labor.	Hired Equipment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equipment.	Depreciation of Equipment.	Total Cost.		
Vitrified clay pipe,	$9,383.77	$360.68	$4,222.52	$177.42	$1,507.56	.....	$518.02	$31.50	.....	$409.05	$16,610.52	.....	.....
Concrete,	8,787.51	502.66	2,594.15	350.54	1,311.09	.....	437.43	9.00	$42.00	387.61	14,421.99	.....	.....
Wellholes,	426.09	84.06	750.59	.....	131.33	.....	35.19	.....	.....	17.36	1,444.62	.....	.....
Manholes,	265.10	44.65	304.50	.....	65.04	.....	25.36	.....	.....	10.80	715.45	.....	.....
Flush gates,	.....	.....	.....	290.65	29.07	.....	.....	.....	.....	.....	319.72	.....	.....
Total cost,	$18,862.47	$992.05	$7,871.76	$818.61	$3,044.09	.....	$1,016.00	$40.50	$42.00	$824.82	$33,512.30	.....	.....
MAINTENANCE, REPAIRING. CITY COST.													
Vitrified clay pipe,	$167.57	$10.04	$90.59	.....	$30.60	$0.32	$43.60	.....	.....	$7.36	$350.08	.....	.....
Brick,	3,084.37	82.10	878.46	$103.94	443.48	.....	153.45	.....	.....	138.52	4,884.82	.....	.....
Concrete,	4.76	.....	.....	.....	.68	.....	1.80	.....	.....	.20	7.44	.....	.....
Manholes,	276.30	91.45	663.49	.....	105.11	.....	29.23	.....	.....	10.22	1,175.80	.....	.....
Wellholes,	1,253.75	441.98	2,426.54	.....	424.36	2.61	119.56	.....	.....	47.82	4,716.62	.....	.....
Flush gates,	.....	.....	.....	494.80	49.35	.....	.....	.....	.....	.....	544.15	.....	.....
Total cost,	$4,787.25	$625.57	$4,059.08	$598.74	$1,053.58	$2.93	$347.64	.....	.....	$204.12	$11,678.91	.....	.....
MAINTENANCE. ASSESSABLE COST.													
Manholes,	$5.95	$4.25	$2.87	.....	$1.33	.....	.....	.....	.....	$0.20	$14.60	.....	.....
Wellholes,	5.21	.....	.22	.....	.84	.....	$2.65	.....	.....	.22	9.14	.....	.....
Private drains, construction,	3,164.86	49.55	1,358.37	.....	492.19	.....	320.50	.....	.....	136.32	5,521.79	.....	.....
Repairing and relaying,	296.48	.....	100.39	.....	43.38	.....	42.90	$4.50	.....	13.04	500.69	.....	.....
Construction to curb or special work,	89.60	1.84	64.67	.....	14.99	.....	12.16	.....	.....	3.86	187.12	.....	.....
Cleaning private drains,	133.69	5.95	6.16	.....	19.71	.....	43.41	2.25	.....	5.88	217.05	.....	.....
Total cost,	$3,695.79	$61.59	$1,532.68	.....	$572.44	.....	$421.62	$6.75	.....	$159.52	$6,450.39	.....	.....

CLASSIFICATION OF EXPENSE.—*Continued.*

SEWERS.—Continued.	Cost of Work Performed.												
	Labor, Material, Equipment, and Other Charges.											Total Work Units.	Unit Cost.
	Labor.	Hired Equipment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equipment.	Depreciation of Equipment.	Total Cost.		
MAINTENANCE, FLUSHING.													
Total cost,	$2,433.43	.....	$1.55	.....	$404.51	$1,436.00	$69.15	.....	.....	$105.11	$4,449.75	.....	.....
MAINTENANCE, CLEANING.													
Vitrified clay pipe,	$2,696.49	$680.00	$0.92	.....	$357.53	.....	$81.43	.....	.....	$117.03	$3,933.40	.....	.....
Concrete,	50.01	11.05	.....	.....	6.40	.....	.90	.....	.....	2.12	70.48	.....	.....
Brick,	510.72	111.35	1.24	.....	64.99	.....	4.95	.....	.....	21.73	714.98	.....	.....
Outlets,	205.78	.....	.....	.....	22.87	.....	14.45	.....	.....	8.51	251.61	.....	.....
Total cost,	$3,463.00	$802.40	$2.16	.....	$451.79	.....	$101.73	.....	.....	$149.39	$4,970.47	.....	.....
MAINTENANCE.													
Miscellaneous,	$993.66	$73.70	$14.15	$8.49	$131.76	.....	$184.85	.....	.....	$44.84	$1,450.95	.....	.....
Sewer survey,	.....	.....	.....	4,228.33	.....	.....	.....	.....	.....	.....	4,228.33	.....	.....
Total cost,	$993.66	$73.70	$14.15	$4,236.82	$131.76	.....	$184.85	.....	.....	$44.84	$5,679.28	.....	.....
Grand total, Sewers,	$34,235.60	$2,555.31	$13,481.38	$5,654.17	$5,658.17	$1,438.98	$2,140.99	$47.25	$42.00	$1,487.30	$66,741.10	.....	.....
GARBAGE DISPOSAL.													
												lbs.	
Garbage Collection,	$24,581.71	$6.80	.....	$1,400.36	$4,205.86	$14,991.31	.....	.....	.....	$1,078.48	$46,264.52	16,477,968	$0.0028
Garbage Disposal,	1,379.02	.....	.....	.....	143.39	.....	.....	.....	.....	55.06	1,577.47	.....	.....
Total cost,	$25,960.73	$6.80	.....	$1,400.36	$4,349.25	$14,991.31	.....	.....	.....	$1,133.54	$47,841.99	.....	.....

CLASSIFICATION OF EXPENSE.—*Continued.*

ASHES AND REFUSE DISPOSAL.	Cost of Work Performed. Labor, Material, Equipment, and Other Charges. Labor.	Hired Equipment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equipment.	Depreciation of Equipment.	Total Cost.	Total Work Units. Loads.	Unit Cost.
Ashes,	$66,821.74	$10,660.45	.....	$2,799.68	$9,857.27	$10,364.83	.....	.....	.....	$2,925.39	$102,929.36	32,616	$3.155
Maintenance of Dumps,	4,672.60	.....	$6.34	.96	490.45	16.64	$1.80	.....	.....	206.16	5,394.95	.....	.....
Refuse,	21,663.56	1,360.27	.....	.....	2,909.45	5,119.35	.....	.....	.....	951.57	32,004.20	7,556	4.235
Logan street incinerator,	6,156.95	95.99	16.73	423.30	707.18	45.00	10.05	.....	.....	323.07	7,778.22	.....	.....
Total cost,	$99,314.85	$12,116.71	$23.07	$3,223.94	$13,464.30	$15,545.82	$11.85	.....	.....	$4,406.19	$148,106.73	.....	.....
Grand total, Ashes, Refuse and Garbage Disposal,	$125,275.58	$12,123.51	$23.07	$4,624.30	$17,813.55	$30,587.13	$11.85	.....	.....	$5,539.73	$195,948.72	.....	.....
HIGHWAYS.													
CONSTRUCTION.													
City Cost.													
Water-bound macadam,	$163.07	$159.16	$143.80	.....	$49.85	.....	$5.25	$20.25	.....	$6.92	$548.30	.....	.....
Bituminous macadam,	9,037.38	5,677.39	17,179.60	$96.35	3,568.28	$127.68	2,945.92	1,143.45	.....	383.35	40,159.40	.....	.....
Granite block,	11,222.66	3,122.65	30,024.28	3,038.95	4,919.64	87.00	570.29	206.50	$447.40	476.70	54,116.07	.....	.....
Wood block,	984.70	404.50	2,766.98	191.34	452.76	.....	81.48	.....	54.00	44.63	4,980.39	.....	.....
Total cost,	$21,407.81	$9,363.70	$50,114.66	$3,326.64	$8,990.53	$214.68	$3,602.94	$1,370.20	$501.40	$911.60	$99,804.16	.....	.....
MAINTENANCE.													
City Cost.													
Water-bound macadam,	$4,853.35	$3,987.89	$6,389.51	$0.68	$1,615.79	.....	$124.28	$639.08	.....	$218.31	$17,778.89	.....	.....
Bituminous macadam,	10,390.65	7,612.40	21,581.23	7.65	4,290.73	$75.70	1,441.79	1,335.55	.....	461.91	47,197.61	.....	.....
Bituminous concrete,	14,457.04	6,850.67	39,280.32	5.86	6,505.33	345.60	1,437.37	1,806.37	$247.50	610.88	71,546.94	.....	.....
Wood block,	1,233.78	386.59	1,768.46	.....	352.04	3.29	74.69	.....	.....	53.43	3,872.28	.....	.....
Granite block,	643.46	226.69	54.35	.....	96.42	.....	12.75	.....	.....	26.81	1,060.48	.....	.....
Brick,	459.61	179.01	245.85	.....	90.38	.....	.....	.....	.....	19.23	994.08	.....	.....
Bitulithic,	270.98	80.13	$71.00	.....	78.63	.....	12.25	41.12	.....	10.83	864.94	.....	.....

CLASSIFICATION OF EXPENSE.—*Continued.*

HIGHWAYS.—Continued.	Cost of Work Performed.												
	Labor, Material, Equipment, and Other Charges.												
MAINTENANCE. CITY COST.	Labor.	Hired Equipment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equipment.	Depreciation of Equipment.	Total Cost.	Total Work Units.	Unit Cost.
Hassam,	$144.56	$66.30	$154.63	.....	$37.22	.....	.....	.....	.....	$6.70	$409.41	.....	.....
Gravel,	12,628.82	9,876.09	3,823.31	$39.62	2,899.86	$199.50	$1,014.71	$605.25	$245.40	565.33	31,897.89	.....	.....
Fences,	2,299.90	173.12	1,181.54	224.11	430.76	.....	330.44	.....	.....	98.08	4,737.95	.....	.....
Asphalt,	579.55	165.42	451.97	.....	132.24	.....	19.25	82.01	.....	24.02	1,454.46	.....	.....
Miscellaneous,	1,429.69	1.28	517.32	54.63	272.38	9.68	644.73	.....	.....	66.13	2,995.84	.....	.....
Mixed concrete,	563.42	123.40	402.62	.....	116.39	.....	49.90	.....	10.00	25.74	1,291.47	.....	.....
Rocmac,	8.79	9.35	14.82	.....	3.34	.....	.....	.....	.....	.42	36.72	.....	.....
Street signs,	1,224.51	3.82	688.48	140.58	287.45	2.97	263.15	.....	.....	51.08	2,612.04	.....	.....
Culvert,	361.62	20.43	41.69	8.84	48.03	.....	31.95	.....	.....	15.67	528.23	.....	.....
Total cost,	$51,549.73	$29,712.59	$76,967.10	$481.97	$17,206.99	$636.74	$5,457.26	$4,509.38	$502.90	$2,249.57	$189,274.23	.....	.....
MAINTENANCE. ASSESSABLE COST.													
Water-bound macadam,	$522.61	$301.59	$385.48	.....	$126.90	.....	.....	$35.85	.....	$22.56	$1,394.99	.....	.....
Bituminous macadam,	1,329.38	1,012.37	3,226.52	.....	593.50	$2.40	$165.87	142.40	.....	55.26	6,527.20	.....	.....
Bituminous concrete,	15.18	5.10	.09	.....	2.11	.....	.....	.....	.....	.68	23.16	.....	.....
Wood block,	1,397.58	461.30	2,060.22	.....	406.13	.....	39.98	.....	$42.00	60.01	4,467.22	.....	.....
Granite block,	592.62	173.70	194.39	.....	98.56	.....	.....	.....	.....	24.90	1,084.17	.....	.....
Brick,	276.08	122.09	155.78	.....	56.61	.....	.....	.....	.....	11.83	622.39	.....	.....
Bitulithic,	5.36	1.70	.....	.....	.73	.....	.....	.....	.....	.24	8.03	.....	.....
Hassam,	212.58	52.98	168.89	.....	46.72	.....	23.18	.....	.....	9.69	513.99	.....	.....
Gravel,	44.36	35.88	.....	.....	8.81	.....	.....	6.00	.....	1.84	96.89	.....	.....
Fences,	14.62	.....	.....	$2.40	2.00	.....	2.40	.....	.....	.62	22.04	.....	.....
Asphalt,	119.80	37.82	.92	.....	16.39	.....	.....	.....	.....	5.37	180.30	.....	.....
Total cost,	$4,530.17	$2,204.58	$6,192.29	$2.40	$1,358.46	$2.40	$230.88	$184.25	$42.00	$193.00	$14,940.38	.....	.....
Grand total, Highways	$77,487.71	$41,280.82	$133,274.05	$3,811.01	$27,555.98	$858.82	$9,291.08	$6,063.83	$1,046.30	$3,354.17	$304,018.77	.....	.....

CLASSIFICATION OF EXPENSE.—*Continued.*

BRIDGES. MAINTENANCE. CITY COST.	Cost of Work Performed. Labor, Material, Equipment, and Other Charges. Labor.	Hired Equipment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equipment.	Depreciation of Equipment.	Total Cost.	Total Work Units.	Unit Cost.
Abbe Avenue Bridge.													
Cleaning and painting,	$573.71	.....	$87.35	$61.67	$85.17	.....	$105.03	.....	.....	$23.89	$936.82	.....	.....
Cutting parapet wall,	20.28	.....	.....	.....	2.12	.....	.....	.....	.....	.88	23.28	.....	.....
Roadway,	.....	.....	.....	†145.26	†14.53	.....	.....	.....	.....	.....	†159.79	.....	.....
Armory street (B. & A.).													
Roadway,	269.59	.....	161.84	333.50	80.67	.....	29.80	.....	.....	11.92	887.32	.....	.....
Armory Street (N. Y., N. H. & H.).													
Roadway,	87.83	.....	9.39	.....	11.02	.....	9.00	.....	.....	4.04	121.28	.....	.....
Fort Pleasant Avenue.													
Railings,	159.19	.....	.09	.....	16.59	.....	.....	.....	.....	6.62	182.49	.....	.....
Ludlow Bridge.													
Approach,	356.83	$43.00	196.35	.....	65.49	.....	43.90	.....	.....	14.82	720.39	.....	.....
Roadway,	1,732.61	165.96	2,580.96	491.57	527.68	.....	234.78	.....	.....	70.84	5,804.40	.....	.....
North End Bridge.													
Cleaning,	24.41	1.70	.....	.....	2.86	$1.28	.....	.....	.....	1.19	31.44	.....	.....
Painting,	295.07	.....	2.25	.....	34.06	.....	29.75	.....	.....	13.52	374.65	.....	.....
Roadway,	75.05	.....	.77	985.96	108.58	.....	20.70	.....	.....	3.34	1,194.40	.....	.....
Sidewalks,	78.27	.....	6.74	.....	9.69	.....	8.10	.....	.....	3.74	106.54	.....	.....
*Old Toll Bridge.													
Approach,	9.18	.....	1.61	29.10	4.03	.....	.....	.....	.....	.36	44.28	.....	.....
Cleaning,	3.63	.....	1.02	.....	.83	.60	2.98	.....	.....	.15	9.21	.....	.....
Roadway,	60.61	26.00	.....	.....	8.90	.....	.....	.....	.....	2.42	97.93	.....	.....
Watching,	3,903.92	.....	38.68	.....	417.26	.....	.....	.....	.....	229.94	4,589.80	.....	.....
Plainfield Street Bridge.													
Railings,	22.00	.....	.17	10.41	3.34	.....	.....	.....	.....	.86	36.78	.....	.....
Red House Crossing.													
Painting,	47.50	.....	3.00	.....	5.99	.....	7.20	.....	.....	2.18	65.87	.....	.....
South End Bridge.													
Cleaning,	188.88	.....	33.87	.....	24.55	.....	14.65	.....	.....	8.09	270.04	.....	.....
St. James Avenue (B. & A.).													
Painting,	97.62	.....	7.50	.....	12.59	.....	16.20	.....	.....	4.56	138.47	.....	.....
Roadway,	595.93	64.40	21.22	1,241.81	201.21	.....	63.75	.....	.....	24.90	2,213.22	.....	.....

*See Capital Account. † Credit.

CLASSIFICATION OF EXPENSE.—*Continued.*

BRIDGES.—Continued.	Cost of Work Performed. Labor, Material, Equipment, and Other Charges.											Total Work Units.	Unit Cost.
MAINTENANCE. CITY COST.	Labor.	Hired Equipment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equipment.	Depreciation of Equipment.	Total Cost.		
Sundry Bridges.													
Approaches,	$50.34	.....	$74.16	.....	$12.67	.....	.....	.....	.....	$2.24	$139.41	.....	.....
Railings,	32.98	.....	.05	$0.27	3.45	.....	.....	.....	.....	1.16	37.91	.....	.....
Roadway,	90.07	$14.88	24.76	123.78	27.18	.....	$14.33	.....	.....	3.88	298.88	.....	.....
Total cost,	$8,775.50	$315.94	$3,251.78	$3,132.81	$1,651.40	$1.88	$600.17	.....	.....	$435.54	$18,165.02	.....	.....
MAINTENANCE. ASSESSABLE COST.													
Old Toll Bridge.													
Horsehead Const. Co.,	.....	$3.68	.....	.....	$0.37	.....	.....	.....	.....	.....	$4.05	.....	.....
St. James Avenue (B.&A.), Roadway,	$11.02	.....	.....	.....	1.51	.....	$3.60	.....	.....	$0.48	16.61	.....	.....
Total cost,	$11.02	$3.68	.....	.....	$1.88	.....	$3.60	.....	.....	$0.48	$20.66	.....	.....
	$8,786.52	$319.62	$3,251.78	$3,132.81	$1,653.28	$1.88	$603.77	.....	.....	$436.02	$18,185.68	.....	.....
North End Bridge.													
Special services inspect'g,	.....	.....	.....	300.00	.....	.....	.....	.....	.....	.....	300.00	.....	.....
Grand total, Bridges,	$8,786.52	$319.62	$3,251.78	$3,432.81	$1,653.28	$1.88	$603.77	.....	.....	$436.02	$18,485.68	.....	.....
SIDEWALKS AND CURBING.													
CONSTRUCTION. CITY COST.													
Concrete walks,	$302.89	$40.56	$143.38	$2.47	$52.49	.....	$10.43	.....	$13.50	$11.75	$577.47	.....	.....
Brick walks,	47.82	3.68	1.28	.....	5.46	.....	.....	.....	.....	1.84	60.08	....	.....
Granite curb,	1,447.69	337.31	304.01	.86	216.01	.....	3.65	.....	.....	66.51	2,376.04	.....	.....
Total cost,	$1,798.40	$381.55	$448.67	$3.33	$273.96	.....	$14.08	.....	$13.50	$80.10	$3,013.59	.....	.....

CLASSIFICATION OF EXPENSE.—*Continued.*

SIDEWALKS AND CURBING.—Continued.	Cost of Work Performed.												
	Labor, Material, Equipment, and Other Charges.											Total Work Units.	Unit Cost.
	Labor.	Hired Equipment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equipment.	Depreciation of Equipment.	Total Cost.		
CONSTRUCTION. ASSESSABLE COST.													
Concrete walks,	$5,904.87	$1,152.77	$5,611.01	$804.50	$1,460.06	.....	$424.73	.....	$444.00	$258.96	$16,060.90	.....	.....
Brick walks,	1,793.38	429.03	195.66	41.76	253.56	.....	.....	.....	.....	75.53	2,788.92	.....	.....
Granite curb,	417.42	301.95	6,457.84	.....	486.81	.....	1.76	.....	.....	18.95	7,684.23	.....	.....
Total cost,	$8,115.67	$1,883.75	$12,264.01	$846.26	$2,200.43	.....	$426.49	.....	$444.00	$353.44	$26,534.05	.....	.....
MAINTENANCE. CITY COST.													
Concrete walks,	$200.70	$95.52	$41.63	.....	$26.47	.....	.....	.....	.....	$8.75	$373.07	.....	.....
Brick walks,	654.69	59.27	198.97	$23.04	128.42	$299.14	$20.68	.....	.....	28.38	1,412.59	.....	.....
Granite curb,	7,787.23	1,479.60	407.36	25.72	1,008.47	.....	30.96	.....	.....	353.27	11,092.66	.....	.....
Stone gutter,	9.80	5.00	.50	.....	1.57	.....	.....	.....	.....	.40	17.27	.....	.....
Crosswalks,	9.41	20.40	24.00	.....	5.42	.....	.....	.....	.....	.44	59.67	.....	.....
Driveways,	20.97	8.57	14.01	.....	4.45	.....	.....	.....	.....	.94	48.94	.....	.....
Tar walks,	1.32	2.55	2.18	.....	.61	.....	.....	.....	.....	.06	6.72	.....	.....
Cinder walks,	27.34	38.40	23.00	.....	9.03	.....	.....	.....	.....	1.10	99.37	.....	.....
Tree belts,	13.99	.....	.....	.....	1.99	.....	5.25	.....	.....	.64	21.87	.....	.....
Miscellaneous,	.73	.....	.....	.....	.07	.....	.....	.....	.....	.....	.80	.....	.....
Total cost,	$8,726.73	$1,709.31	$711.65	$48.76	$1,186.50	$299.14	$56.89	.....	.....	$393.98	$13,132.96	.....	.....
MAINTENANCE. ASSESSABLE COST.													
Brick walks,	$30.25	$5.38	.....	.....	$3.88	.....	$1.75	.....	.....	$1.36	$42.62	.....	.....
Concrete walks,	120.22	26.35	$165.88	.....	31.31	.....	.....	.....	.....	5.60	349.36	.....	.....
Granite curb,	27.02	5.14	14.27	.....	4.76	.....	.....	.....	.....	1.12	52.31	.....	.....
Driveways,	374.34	145.37	458.18	.....	99.48	.....	.....	.....	.....	16.29	1,093.66	.....	.....
Total cost,	$551.83	$182.24	$638.33	.....	$139.93	.....	$1.75	.....	.....	$24.37	$1,538.45	.....	.....
Grand total, Sidewalks and Curbing,	$19,192.63	$4,156.85	$14,062.66	$898.35	$3,800.82	$299.14	$499.21	.....	$457.50	$851.89	$44,219.05	.....	.....

CLASSIFICATION OF EXPENSE.—*Continued.*

OILING STREETS.	Cost of Work Performed.												
	Labor, Material, Equipment, and Other Charges.												
MAINTENANCE. CITY COST.	Labor.	Hired Equipment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equipment.	Depreciation of Equipment.	Total Cost.	Total Work Units. sq. yds.	Unit Cost.
Oil,	$1,606.26	$398.23	$8,625.50	$72.08	$1,172.17	.....	$942.42	$6.75	.....	$70.41	$12,893.77	1,356,640	$0.0095
Oil and sand,	4,037.02	2,303.07	11,948.47	.....	1,967.67	$6.60	1,184.36	15.00	.....	182.09	21,644.28	1,003,045	0.0215
Total cost,	$5,643.28	$2,701.30	$20,573.97	$72.08	$3,139.84	$6.60	$2,126.78	$21.75	.....	$252.50	$34,538.05	.....	.....
MAINTENANCE. ASSESSABLE COST.													
Oil,	$47.87	.....	$964.72	.....	$109.92	.....	$84.75	.....	.....	$1.97	$1,209.23	.....	.....
Total cost,	$47.87	.....	$964.72	.....	$109.92	.....	$84.75	.....	.....	$1.97	$1,209.23	.....	.....
Grand total, Street Oiling,	$5,691.15	$2,701.30	$21,538.69	$72.08	$3,249.76	$6.60	$2,211.53	$21.75	.....	$254.47	$35,747.28	.....	.....
SPRINKLING STREETS.													
City cost,	$5,429.34	$235.09	$2.21	$4,902.00	$1,466.82	$470.40	$3,891.38	.....	.....	$237.88	$16,135.12	.....	.....
Total cost,	$5,429.34	$235.09	$2.21	$4,902.00	$1,466.82	$470.40	$3,891.38	.....	.....	$237.88	$16,135.12	.....	.....
LIGHTING STREETS.													
Lighting streets and bridges,	.....	.....	.....	$140,593.27	$3,737.18	.....	.....	.....	.....	.....	$144,330.45	.....	.....
Total cost,	.....	.....	.....	$140,593.27	$3,737.18	.....	.....	.....	.....	.....	$144,330.45	.....	.....
OUTSIDE COSTS.													
Maintenance of Building Department cars,	$81.62	.....	$599.41	$1.75	.....	.....	.....	.....	.....	.....	$682.78	.....	.....
Material sold,	28.76	$3.70	1,559.20	66.35	$128.22	$9.82	$2.18	.....	.....	$1.25	1,799.43	.....	.....
Miscellaneous,	209.02	51.42	45.92	.....	17.89	2.97	.85	.....	.....	8.85	336.92	.....	.....
Rent of Equipment,	153.31	.....	.....	.....	49.64	.....	216.25	$80.88	$263.60	6.19	769.87	.....	.....
Snow removal, City Property,	889.15	66.30	.19	.....	102.42	17.00	10.00	.....	.....	41.55	1,126.61	.....	.....
Total cost,	$1,361.86	$121.42	$2,204.72	$68.10	$298.17	$29.79	$229.23	$80.88	$263.60	$57.84	$4,715.61	.....	.....

CLASSIFICATION OF EXPENSE.—*Continued.*

STREET CLEANING. CHARGEABLE TO CAPITAL ACCOUNTS.	Cost of Work Performed. Labor, Material, Equipment, and Other Charges. Labor.	Hired Equipment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equipment.	Depreciation of Equipment.	Total Cost.	Total Work Units.	Unit Cost.
Old Toll bridge,	$7,507.92	$401.20	$1,140.52	$31,722.64	$4,200.78	.....	$830.84	.....	$87.00	$320.20	$46,211.10	.....	.....
Dwight street widening,	149.90	62.05	.....	.....	22.94	.....	10.80	.....	.....	6.60	252.29	.....	.....
Fulton street widening,	1,099.50	354.45	1,644.44	181.13	346.30	.....	103.05	$6.75	18.00	50.77	3,809.39	.....	.....
Water street,	1,806.38	1,361.28	2,938.87	.....	674.14	$30.72	374.93	96.75	50.70	81.64	7,415.41	.....	.....
Surface water sewer,	16,613.08	767.44	5,717.96	1,382.19	2,656.63	.....	704.63	10.00	687.00	684.22	29,223.15	.....	.....
Total cost,	$27,176.78	$2,946.42	$11,441.79	$33,285.96	$7,900.79	$30.72	$2,029.25	$113.50	$842.70	$1,143.43	$86,911.34	.....	.....
STREET CLEANING.													
Patrol,	$46,376.06	$2,762.31	$10.01	.....	$5,528.24	$303.72	$3,610.44	.....	.....	$2,219.72	$60,810.50	.....	.....
Macadam,	26,006.40	5,551.50	.....	.....	3,477.86	1,917.04	68.16	.....	.....	1,235.49	38,256.45	.....	.....
Wellholes,	2,126.02	777.10	.....	.....	319.16	17.87	175.78	.....	.....	94.92	3,510.85	.....	.....
Gravel,	880.68	529.88	.....	.....	145.04	.....	.....	.....	.....	39.80	1,595.40	.....	.....
Machine,	341.97	978.72	.49	.....	133.77	.....	.....	.....	.....	16.43	1,471.38	.....	.....
Crosswalks,	1,196.62	34.00	.....	.....	128.71	.....	.....	.....	.....	56.49	1,415.82	.....	.....
Gutters,	117.08	43.39	.....	.....	16.57	.....	.....	.....	.....	5.24	182.28	.....	.....
Catch basin,	202.76	98.21	.....	.....	31.01	.....	.....	.....	.....	9.22	341.20	.....	.....
Leaves,	166.35	95.00	.....	.....	26.84	.....	.....	.....	.....	7.02	295.21	.....	.....
Total cost,	$77,413.94	$10,870.11	$10.50	.....	$9,807.20	$2,238.63	$3,854.38	.....	.....	$3,684.33	$107,879.09	.....	.....
Sanding,	$127.65	$38.25	$4.31	.....	$19.76	$3.30	$18.35	.....	.....	$5.71	$217.33	.....	.....
Removal of snow and ice,	1,667.24	760.32	.....	.....	257.16	8.91	56.57	.....	.....	78.58	2,828.78	.....	.....
Total cost,	$1,794.89	$798.57	$4.31	.....	$276.92	$12.21	$74.92	.....	.....	$84.29	$3,046.11	.....	.....
ASSESSABLE COST.													
Removal of snow and ice,	$19.12	$1.70	.....	.....	$2.17	.....	.....	.....	.....	$0.88	$23.87	.....	.....
Total cost,	$19.12	$1.70	.....	.....	$2.17	.....	.....	.....	.....	$0.88	$23.87	.....	.....
Grand total, Street Cleaning,	$79,227.95	$11,670.38	$14.81	.....	$10,086.29	$2,250.84	$3,929.30	.....	.....	$3,769.50	$110,949.07	.....	.....

CLASSIFICATION OF EXPENSE.—*Continued.*

STABLES AND YARDS.	Cost of Work Performed.												
	Labor, Material, Equipment, and Other Charges.											Total Work Units.	Unit Cost.
IMPROVEMENTS.	Labor.	Hired Equipment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equipment.	Depreciation of Equipment.	Total Cost.		
Repairs to trestle, Summer street,	$7,398.12	$635.78	$2,617.08	$3,800.24	.....	.....	$681.80	.....	.....	$319.26	$15,452.28	.....	.....
Building fence and driveway, Emery street,	258.62	45.05	94.72	153.79	.....	.....	.....	$6.75	.....	12.33	571.26	.....	.....
Repairs to garage, Summer street,	304.03	.....	59.66	500.79	.....	$0.66	21.98	.....	.....	13.39	900.51	.....	.....
Construction of fence, West street dump,	53.64	.....	15.29	10.56	.....	.....	2.70	.....	.....	2.32	84.51	.....	.....
Construction of fence, Summer street,	141.50	.....	24.42	.....	.....	.....	15.30	.....	.....	6.28	197.50	.....	.....
Repairing stalls at stables, Summer street,	26.15	.....	2.56	.45	.....	.....	.....	.....	.....	1.10	30.26	.....	.....
Installing wash stand, Summer street,	94.44	17.42	64.93	.....	.....	1.65	.....	.....	.....	4.27	182.71	.....	.....
Painting fence, Summer street,	40.58	.....	3.75	.....	.....	.....	.....	.....	.....	1.84	46.17	.....	.....
Building fence, Summer street,	72.20	.....	34.88	.....	.....	.....	10.40	.....	.....	3.14	120.62	.....	.....
Painting fence, Logan street,	166.60	.....	42.70	.....	.....	.....	17.60	.....	.....	7.36	234.26	.....	.....
Cutting doorway, Emery street,	40.16	.....	11.02	1.00	.....	.....	.....	.....	.....	1.69	53.87	.....	.....
Building coal bin, Asphalt Plant,	189.79	.....	65.99	.....	.....	.....	14.45	.....	.....	7.86	278.09	.....	.....
Repairs to house, Summer street,	21.01	.....	22.48	.....	.....	.....	.....	.....	.....	.82	44.31	.....	.....
Total cost,	$8,806.84	$698.25	$3,059.48	$4,466.83	.....	$2.31	$764.23	$6.75	.....	$381.66	$18,186.35	.....	.....

CLASSIFICATION OF EXPENSE.—*Concluded.*

SERVICES RENDERED. NOT CHARGEABLE TO DEPARTMENTAL COSTS.	Cost of Work Performed. Labor, Material, Equipment, and Other Charges. Labor.	Hired Equipment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equipment.	Depreciation of Equipment.	Total Cost.	Total Work Units.	Unit Cost.
Lines and grades, sidewalks and curbs,	$939.58	.....	.....	.....	.....	.....	.....	.....	.....	.....	$939.58	.....	.....
Surveys and plans for Assessors,	151.92	.....	.....	.....	.....	.....	.....	.....	.....	.....	151.92	.....	.....
Surveys, etc., for Board of Public Works,	1,514.55	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,514.55	.....	.....
Engineering for Law Law Department,	109.40	.....	.....	.....	.....	.....	.....	.....	.....	.....	109.40	.....	.....
Miscellaneous work for other departments,	2,992.14	.....	$0.02	.....	.....	.....	$157.08	.....	.....	.....	3,149.24	.....	.....
Engineering for City Property Committee,	161.64	.....	10.40	.....	.....	.....	26.46	.....	.....	.....	198.50	.....	.....
Topographical survey,	6,359.58	.....	8.82	$0.75	.....	.....	.....	.....	.....	.....	6,369.10	.....	.....
Constable work,	715.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	715.00	.....	.....
Relief sewer design,	338.87	.....	.....	.....	.....	.....	.....	.....	.....	.....	338.87	.....	.....
Total cost,	$13,282.63	.....	$19.24	$0.75	.....	.....	$183.54	.....	.....	.....	$13,486.16	.....	.....
ADMINISTRATIVE AUTOMOBILES.													
Mayor's auto,	$1,031.02	.....	$4.34	$855.39	.....	.....	.....	.....	.....	.....	$1,890.75	.....	.....
Municipal auto,	216.08	.....	536.90	105.19	.....	.....	.....	.....	.....	.....	858.17	.....	.....
Total cost,	$1,247.10	.....	$541.24	$960.58	.....	.....	.....	.....	.....	.....	$2,748.92	.....	.....
SHOPS.													
Repairing drinking fountains,	$90.25	.....	$0.04	$22.19	$11.58	.....	.....	.....	.....	$3.30	$127.36	.....	.....
Total cost,	$90.25	.....	$0.04	$22.19	$11.58	.....	.....	.....	.....	$3.30	$127.36	.....	.....

RECAPITULATION OF COST OF WORK PERFORMED

Labor, Material, Equipment, and Other Charges.

	Labor.	Hired Equipment.	Materials.	Other Charges.	Overhead Expense.	City Teams.	Trucks.	Rollers.	Other City Equipment.	Depreciation of Equipment.	Total Cost.
Sewers,	$34,235.60	$2,555.31	$13,481.38	$5,654.17	$5,658.17	$1,438.98	$2,140.99	$47.25	$42.00	$1,487.30	$66,741.10
Garbage,	25,960.73	6.80	.....	1,400.36	4,349.25	14,991.31	.....	.....	.....	1,133.54	47,841.99
Ashes and refuse,	99,314.85	12,116.71	23.07	3,223.94	13,464.30	15,545.82	11.85	.....	.....	4,406.19	148,106.73
Highway,	77,487.71	41,280.82	133,274.05	3,811.01	27,555.98	853.82	9,291.08	6,063.88	1,046.30	3,354.17	304,018.77
Bridges,	8,786.52	319.62	3,251.78	3,432.81	1,658.28	1.88	603.77	.....	.....	436.02	18,485.68
Sidewalks and curbing,	19,192.63	4,156.85	14,062.66	898.35	3,800.82	299.14	499.21	.....	457.50	851.89	44,219.05
Sprinkling streets,	5,429.34	235.09	2.21	4,902.00	1,466.82	470.40	3,391.38	.....	.....	237.88	16,135.12
Oiling,	5,691.15	2,701.30	21,538.69	72.08	3,249.76	6.60	2,211.53	21.75	.....	254.47	35,747.28
Street cleaning,	79,227.95	11,670.38	14.81	.....	10,086.29	2,250.84	3,929.30	.....	.....	3,769.50	110,949.07
Lighting,	.....	.....	.....	140,593.27	3,737.18	.....	.....	.....	.....	.....	144,330.45
Shops,	90.25	.....	.04	22.19	11.58	.....	.....	.....	.....	3.30	127.36
Stables and yards improvements,	8,806.84	698.25	3,059.48	4,446.83	.....	2.31	764.23	6.75	.....	381.66	18,186.35
Services rendered other departments,	13,282.63	.....	19.24	.75	.....	.....	183.54	.....	.....	.....	13,486.16
Outside,	1,361.86	121.42	2,204.72	68.10	298.17	29.79	229.23	80.88	263.60	57.84	4,715.61
Administrative autos.,	1,247.10	.....	541.24	960.58	.....	.....	.....	.....	.....	.....	2,748.92
Services rendered chargeable to capital accounts,	27,176.78	2,946.42	11,441.79	33,285.96	7,900.79	30.72	2,029.25	113.50	842.70	1,143.43	86,911.34
Grand total,	$407,291.94	$78,808.97	$202,915.16	$202,792.35	$33,232.89	$35,921.56	$25,285.36	$6,333.96	$2,652.10	$17,517.19	$1,062,750.98

REPORT

OF

ENGINEERING DIVISION

FOR THE FISCAL YEAR ENDING NOVEMBER 30, 1919.

SPRINGFIELD, MASS., December 23, 1919.

To Robert P. Marsh, Superintendent of Streets and Engineering, Springfield, Mass.

DEAR SIR:—The work of the Engineering Division, including Board of Public Works affairs, is shown in the following general report.

GENERAL WORK..

As heretofore, the Engineering Division has responded to all the calls for service from the several city departments, the major service having been rendered to the Department of Streets and Engineering, relating to work on streets, sidewalks, and sewers.

TOPOGRAPHICAL SURVEY.

The Topographical Survey of the city has been continued throughout the year, a special party having been employed under the general direction of assistant engineer B. H. Grout. The value of the survey is shown from time to time in connection with many departments of work and is of special value in the designing of sewers and the laying out of new streets.

BRIDGE WORK.

OLD TOLL BRIDGE.

The division has provided for the general inspection and supervision of the rebuilding of the three long spans of the Old Toll Bridge crossing Connecticut River, under the general direction and counsel of Consulting Engineer J. P. Snow of Boston. This ancient structure is now in reason-

able repair, and the substitution of six short spans in place of the three long spans has given added convenience to the traveling public, as in the rebuilding of the three long spans the middle truss was omitted, and one roadway substituted for the two as originally constructed.

Ludlow Bridge.

The flooring of the deck bridge crossing Chicopee River between Springfield and Ludlow was entirely reconstructed, and a wearing surface of creosoted wood blocks laid on a creosoted hard pine under floor. Also the old track structure for the trolly line crossing the bridge was entirely replaced, and a new seven inch girder rail of Metropolitan section laid.

BOARD OF PUBLIC WORKS MATTERS.

The affairs of the Board of Public Works for the fiscal year of 1919 are covered in the following: pertaining to the laying out of new streets, the alteration or widening of existing streets, and the assessment of betterments growing out of the same; the laying out and establishment of sidewalks, the construction of sidewalks, and the relaying or repairs of sidewalks; the laying out and construction of sewers and drains; the laying out and establishing of building lines.

NEW STREETS.

A list of the new streets laid out and established during the year will be found in connection with this report, also a list of streets widened or otherwise altered. There have been twenty-six new streets laid out as public ways and three streets altered and widened.

Several petitions are now pending with the board for new street layouts, alterations, or extensions that involve unusual complications or expense, among which may be mentioned, Taylor street extension, Chestnut street to Spring street; Wilbraham road, Water Shops pond to Wilbraham line; Cottage street, Hampden railroad to Berkshire avenue; Main street, Pecousic avenue to Longhill street; Connecticut River boulevard, North End bridge to Chicopee line; Water street widening, William street to Howard street; North street, Cumberland street to Eagle street; Chestnut street, Eagle street to Chicopee line; Market street, widening on easterly side; Albany street, near Armory street; Fulton street, widening, Auburn street to Plainfield street.

There are also several petitions pending with the board for the ac-

ceptance of streets opened and dedicated to public use by the real estate interests in the residential districts.

MORE IMPORTANT PROJECTS.

Connecticut River Boulevard.

The petition pending for the laying out of a new boulevard along the easterly shore of Connecticut river, from the North End bridge to Chicopee line, was temporarily laid aside with the advent of the war period, as it appeared to the board an inopportune time to complete the project in view of the financial affairs of the city, hearings having been given on the question of convenience and necessity, and in the matter of land and building damages, and it was the consensus of opinion at the time the hearings were given that the public convenience would be greatly served by the carrying out of the project.

Water Street Widening.

The usual hearing on convenience and necessity for the widening of Water street from the northerly end of the widening heretofore carried out, at William street, and extending northerly to Howard street, was held early in the summer season, the petition presented calling for the widening on the westerly side of the thoroughfare or in continuation of the widening heretofore made.

At the hearing mentioned, a plan was presented for the consideration of the board for the widening of the street on the easterly side, against the gas plant and property of the Springfield Gas Light Company; since the hearing, the board on invitation has viewed in detail the buildings and machinery for making gas which must seriously be interfered with if the widening must be ultimately carried out on the westerly side of the street.

The board is now considering an alternate plan for the carrying out of this important project.

Fulton Street Widening.

The Fulton street widening on the easterly side from Auburn street to Plainfield street, in extension of the widening heretofore carried out southerly of Auburn street, is regarded as reasonably necessary in order to derive the full benefit of the widening heretofore made.

When carried out, Fulton street will have a width of seventy feet and,

as it parallels Main street, affords the public another north and south thoroughfare of good width.

It would appear to be a matter of more than usual importance to the public when this project is carried out and it is generally the opinion that it should be done whenever a suitable understanding can be reached with abutting property owners concerning land and building damages that will be fair and equitable.

Taylor Street Extension.

The extension of Taylor street from Chestnut street to Spring street has been before the board for a considerable time and has involved unusual legal complications that have been the subject of study and investigation by the City Solicitor's department.

The board has been able to reach a fair and reasonable understanding with some of the property owners concerning damages to land and buildings, agreements for which are now in the hands of the City Solicitor's department, and it would appear that the board will be able to reach a decision in the near future as to the action that should be taken by the city.

The extension, when made, will secure to the public another main artery of travel, leading from Main street and Dwight street to the hill district through Summer street and Armory street.

Main Street.

The alteration of Main street, by widening the same on the easterly side from the southerly end of Pecousic avenue southerly to the junction with Longhill street, has been under contemplation for a long term of years, and original studies were made in connection with Forest Park development under the suggestion of our esteemed citizen, the late Everett H. Barney.

As Main street forms our main artery of travel, leading to Longmeadow and the south, it is highly important that the thoroughfare should be widened to the width of Pecousic avenue, 100 feet, and form a part of the last-named thoroughfare.

Main street from the South End bridge to Longmeadow line was for many years under the jurisdiction and control of the Board of Park Commissioners, but, on suggestion of said board, was recently transferred to the control of the City Council.

Wilbraham Road.

Petition was referred to the Board of Public Works for the widening and alteration of the Wilbraham road from Water Shops pond to the Wilbraham line. The petition also contemplates the laying out of a new street from Parker street easterly across private lands to a junction with the Wilbraham road, again easterly of Parker street.

North Street Extension and Chestnut Street Laying Out as a Public Way.

The extension of North street northerly to Eagle street and acceptance of Chestnut street as a public way from Eagle street northerly to the Chicopee line has been considered by the board, and the usual hearings given, but the northerly end of Chestnut street involves a new location that must be extended into Chicopee to obtain a desirable connection with North Main street.

Negotiations are now pending to bring about joint action with the City of Chicopee, that shall secure a layout for this new thoroughfare paralleling Main street, in which the traveling public will derive great benefit and convenience.

Cottage Street Alteration.

The alteration and straightening of Cottage street between Berkshire avenue and the Rumrill road was considered under petition referred to the board early in the summer season, large adjoining real estate interests desiring an improved location and an established grade, in order that a proposed system of connecting street layouts might be more definitely determined; plans for the alteration have been developed and the next step will be to secure the co-operation of adjoining land interests.

Sewers.

The board has considered and reported upon many petitions for sewers, located mainly in residential districts, and mainly connected with real estate development.

Storm Water Relief Sewers.

Early in the year, the board was requested to consider the relief of the district lying between the Boston and Albany railroad and State street, Chestnut street and Connecticut river, in which some annoyance has occurred to property owners from occasional flooding of cellars and basements during unusual downpours of rain. Some of the sewers of the

district, constructed many years ago, were provided with much less capacity than is now customary, designed by our predecessors on the best information available at the time such provision was made, as was then considered ample, based on the imperfect and insufficient rainfall records of the time.

During more recent years, engineers have been able to obtain much more complete results of rainfall gauging from observation of automatic rain gauges stationed throughout the United States. Also more scientific and more rational formula has been worked out by engineers concerning the amount of rainfall run-off that should be provided for in the designing of sewers.

As these questions have called for the thorough study and highest skill of our best engineers, the city authorities considered that we should follow the practice of many American cities, and invite the careful consideration and study of trained specialists. Consequently Messrs. Metcalf and Eddy, the well-known sewerage experts, were called upon for counsel.

As petition has been presented to the board for the consideration of relief from flooding of the district in the locality of Shattuck street and tributary streets, it was thought this section should have consideration prior to the down-town business section above referred to.

Following the preliminary report of Messrs. Metcalf and Eddy, upon a general study of the entire drainage district of Carlisle Brook valley, the board recommended an entire new system of storm-water drains for the Shattuck street district; the report of the board also provides for a main trunk outlet sewer to be, at some future time, built through the valley of Carlisle brook to Water Shops pond, the present brook channel to be straightened and lowered to serve as a temporary substitute until the storm-water conduit is provided.

The report of the board also includes the construction of a sanitary sewer through Carlisle Brook valley from the Hickory street intercepting sewer to the Wilbraham road; the construction of this sewer will provide for the Marlborough street district, which is beyond the limits of the Wilbraham road sewer.

The entire system of storm-water drains and the sanitary sewer was estimated to cost $196,300.

Of the matters now pending with the board pertaining to more important sewer construction may be mentioned the studies for the extension of the Mill River valley intercepting sewer from its present terminus in Hickory street at Gunn brook and extending northeasterly through Hickory street to Wilbraham road near the House of the Good Shepherd.

The other involves the extension of the Pine street sewer at Indian Orchard southerly to Old Bay road and westerly in Old Bay road to Oak street, then southerly through Oak street as far as there are buildings requiring drainage.

These studies are being held for the present until the final report of the sewer experts is made, so that the new formulæ pertaining to storm-water run-off may be used.

Building Lines.

As the policy has been recently outlined by the City Council that should be considered by the Board of Public Works in the establishment of building lines, more particularly in the residential districts of the city, the favorable action of the board on several petitions now pending may soon follow.

The board has entertained the view that as the laying out of building lines for residential streets is largely of interest to the property owners directly concerned, some way should be provided that shall secure to the city release from liability or agreement to indemnify the city in the matter of claims for damages.

The board has uniformly stated to petitioners for building lines that they will obtain the main benefits and should therefore find a way to relieve the city of possible expense.

Unlike the above are the cases where building lines have been laid out on some of the main business thoroughfares of the city in order to secure the future widening of the street for increased traffic without undue cost for the removal of new and expensive buildings. Such action is almost wholly in the interest of common convenience and necessity and the public at large should justly bear the expense.

Petitions are now pending with the board for the laying out of building lines on several residential streets.

Sidewalks.

The policy of the board on sidewalk construction remains unchanged, and Portland cement concrete is recognized as the standard material best adapted to business and residential purposes.

Owing to conditions brought about during the war period, involving higher cost of labor and material, the petitions have been somewhat limited as compared with former times, for both new work and repairs on sidewalks.

However, it seems wise that more or less should be done each year

in repairs to existing sidewalks that the safe and convenient use thereof shall be secured to the public and the city freed from needless liability for defective sidewalks.

There is yet a large mileage of defective coal tar concrete and brick sidewalks that can only be remedied through petition to the City Council and reference to the Board of Public Works.

Betterment Assessments.

The policy established a few years ago has been observed during the year and new streets laid out in residential territory have been graded and paved under the provisions of the betterment law and a part of the cost of the improvement charged to abutting property owners as a betterment assessment, as shown by the list presented. Petitioners for the acceptance of streets to be made public, recognizing that property on streets that have been improved with a new paved roadway derives a distinct advantage and benefit, in fairness should be charged with at least a part of the cost.

In closing this report it gives me pleasure to acknowledge the pleasant relations and courtesies extended by the board as well as all others associated with the work.

Respectfully submitted,

CHAS. M. SLOCUM,

Deputy City Engineer and Clerk of the Board of Public Works.

STREETS MADE PUBLIC, 1919.

BY ORDER OF THE CITY COUNCIL.

Name.	Limits.	Length in feet.	Width in feet.	Date of City Council's Order.
Denton circle,	Liberty street to Woodmont street,	516.6	50	Jan. 27, 1919
Centre street, I. O.,	Pine street to Cedar street,	609.2	50	Apr. 21, 1919
Burton street,	White street to Kimberly street,	710.8	50	Mar, 3, 1919
Stratford terrace,	White street easterly to Kimberly street,	531.6	75	June 2, 1919
Longfellow terrace,	Whittier street easterly to White street,	593.9	50–74	June 16, 1919
Broadway extension,	Vernon street to Court street,	534.8	60	June 30, 1919
Wendell place,	Main street easterly,	464.7	40	June 16, 1919
Crestwood street,	Springfield street northeasterly to Rimmon avenue,	578.8	50	June 16, 1919
Saratoga street,	Main street easterly to Richelieu court,	871	35–50	Sept. 2, 1919
Wigwam place,	Dickinson street northeasterly,	291.7	50	Sept. 2, 1919
Rupert street,	White street to Kimberly avenue,	349	50	Sept. 2, 1919
Niagara street,	Saratoga street to Oswego street,	308	48	Sept, 2, 1919
Montpelier street,	Main street to Niagara street,	231	50	Sept. 2, 1919
Eldridge street,	Belmont avenue to Washington street,	543.7	50	Sept. 2, 1919
Itendale street,	Belmont to avenue Washington street,	671	50	Sept. 2, 1919
Summit street,	Worthington street northeasterly to Federal street,	467	50	Sept. 8, 1919
Kimberly street,	Allen street to White street,	1,654.5	50	Sept. 8, 1919
Commonwealth avenue,	Fairview street to Fern street,	808.1	50	Sept. 8, 1919
Miller street,	Armory street to Penacook avenue,	1,440	40	Sept. 8, 1919
Suffolk street,	Wilbraham road to Marlborough street,	788.9	50	Sept. 8, 1919
Marlboro street,	Wilbraham avenue to State street,	847.	50	Sept. 8, 1919
Converse street,	Sumner avenue northerly to Vermont street,	437.4	40	Sept. 29, 1919
Stevens street,	Page boulevard southerly to southerly line of Eureka street,	1,206.9	50	Oct. 20, 1919

STREETS MADE PUBLIC, 1919.—*Continued.*

BY ORDER OF THE CITY COUNCIL.

NAME.	LIMITS.	Length in feet.	Width in feet.	Date of City Council's Order.
Belvidere street,.	Belmont avenue southerly to Fountain place,.	615	50	Oct. 27, 1919
Stafford street extension,.....	From westerly end as heretofore laid out westerly to Cass street	2,280	50	Nov. 25, 1919
	Total	18,350.6	feet or	3.47 miles

STREETS ALTERED OR WIDENED, 1919.

BY ORDER OF THE CITY COUNCIL.

NAME.	LIMITS.	Length in feet.	Former Width.	New Width.	Date of City Council's Order.
Pearl street alteration and widening, southerly line,	From easterly line of Chestnut street across land of the heirs of Wm. Birnie,	196	44.67	64.10 to 44.67	Sept. 15, 1919
Woodlawn street alteration and widening, ...	Belmont avenue southerly to southerly line of Blake street, at point in or near old Longmeadow line,.....	1,679	33	50	Oct. 27, 1919
Dwight road alteration and widening,.....	White street southerly to point opposite southerly corner of Dwight road and Dickinson street,...	6,400	33	50	Oct. 27, 1919

LIST OF STREETS ON WHICH BETTERMENTS HAVE BEEN ASSESSED, DEC. 1, 1918, TO NOV. 30, 1919.

		Approved.
Dwight street,		Dec. 23, 1918
Kendall street,	Liberty street to Sherman avenue,	Jan. 13, 1919
Hamburg street,	End of street accepted prior to 1917 easterly to Silver street,	Jan. 13, 1919
Silver street,	End of street accepted prior to 1917 northeasterly to Hamburg street,	Jan. 13, 1919
Dunmoreland street,	Westford circle to King street,	Feb. 24, 1919
Winter street,	Chestnut to Pearl street,	June 20, 1919
College street,	From northerly end to Acorn street,	June 20, 1919
Herman street,	Sumner avenue to Vermont street,	June 20, 1919
Water street,	Elm to Bridge street,	Aug. 4, 1919

REPORT

OF THE

STREET DIVISION

FOR THE FISCAL YEAR ENDING NOVEMBER 30, 1919.

Mr. R. P. Marsh, Superintendent of Streets and Engineering, Springfield, Mass.

DEAR SIR:—The annual report of the Street Division for the fiscal year ending November 30, 1919, is herewith submitted.

Our most important street improvement, I believe, has been the paving of State street from School street to the top of the hill with granite blocks. I would recommend that the same form of paving be extended to Maple street.

About two and a quarter miles of sheet asphalt pavement have been laid in streets having heavy traffic.

Thirty-six miles of gravel streets have been covered with either tar or asphalt oil and sand.

Thirty-eight miles of water-bound macadam streets have been covered with an application of either tar or asphalt oil and sand. This treatment has proved very satisfactory for both gravel and macadam streets.

We have laid seven thousand square yards of cement walks this past season, an improvement which is greatly appreciated by the public.

Road oil has been most successfully applied for dust laying.

The extensive repairs on the Old Toll bridge have been finished and the bridge opened to travel July 14, 1919. The Ludlow bridge is now being repaired, all the old lumber being removed and replaced with creosoted lumber. Wood block is used for the road surface of this bridge.

More than twenty thousand dollars has been spent from our own appropriation for the patching of street openings, an item which has been charged to other departments and corporations.

Attached herewith will be found a table showing costs and expenses of the various functions of this division.

I desire to acknowledge the co-operation of the foremen and men of this division and to thank you for the courtesies which you have extended me.

Respectfully submitted,

A. H. WOODWARD,
Deputy Superintendent of Streets.

STREET CONSTRUCTION.

PAVING.

Street.	Limits.	Material.	Length in feet.	Area in sq. yds.	Depreciation.	Indirect Cost.	Total Cost.	Cost per sq. yd.
Crossett lane,.....	Main to Willow,.....	Wood block,....	310	738	$44.63	$452.76	$4,980.39	$6.75
Fulton street,.....	At Emery,.....	Granite block,...	144	534	50.77	346.30	3,809.39	7.13
State street,.....	West of School to top of hill,.....	Granite block,...	1,281	8,797	476.70	4,919.64	54,116.07	6.15
Totals,.....	.....	.....	....	....	$572.10	$5,718.70	$62,905.85	....

TABLE OF PERMANENT PAVEMENTS.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.	Year Laid.
Armory street,	Federal to Magazine,	Grit asphalt,	798	2,775	1916
Armory street,	Worthington to N. Y., N. H. & H. R. R.,	Granite blocks on concrete,	878	3,044	1914
Armory street,	N.Y., N.H. & H. R. R. to B. & A. R. R.,	Brick,	194	714	1918
Barnes street,		Bitulithic,	178	552	1909
Bay street,	Catharine to N. Y., N. H. & H. R. R.,	Grit asphalt,	1,295	4,778	1914
Belmont avenue,	At Locust and Mill streets,	Brick,	——	133	1912
Belmont avenue,	Mill street to Bellevue avenue,	Granite blocks on concrete,	1,702	4,507	1913
Belmont avenue,	Mill st. to Bellevue av., between rails,	Granite blocks on concrete,	——	2,260	1912
Belmont avenue,	Bellevue av. to Hall st., between rails,	Brick,	——	1,211	1901
Belmont avenue,	Hall to Oakland, between rails,	Brick,	——	914	1903
Belmont avenue,	Bellevue avenue to "X,"	Grit asphalt,	3,444	12,897	1914
Bliss street,	Main to Water,	Bitulithic,	963	3,104	1914
Boston road,	Berkshire avenue, easterly, 1 mile,	Mixed concrete,	5,280	12,907	1915
Boston road,	End of 1915 work to Wilbraham line,	Mixed concrete,	12,771	31,217	1916
Bradford street,	Main to Plainfield,	Wood blocks,	51	192	1915
Bridge street,	Chestnut to Davis alley,	Asphalt blocks,	195	712	1910
Bridge street,	Davis alley to Dwight,	Wood blocks,	102	373	1910
Bridge street,	Dwight to Barnes,	Sheet asphalt,	439	1,655	1915
Bridge street,	Barnes to Main,	Bitulithic,	251	870	1900
Bridge street,	Broadway to Water,	Bitulithic,	252	895	1911
Carew street,	Intersection of Chestnut,	Brick,	50	229	1914
Catharine street,	State to Bay,	Brick,	1,722	5,691	1900
Charter avenue,	Walnut to Oak street,	Mixed concrete,	629	1,084	1915
Chestnut street,	Pearl to Bridge,	Bitulithic,	201	952	1912
Chestnut street,	Linden to Everett,	Wood blocks,	419	1,438	1909
Chestnut street,	Everett to Carew,	Wood blocks,	359	1,245	1917
Chestnut street,	Carew to Allendale,	Brick,	1,015	3,432	1900
Chestnut street,	Allendale street to Jefferson avenue,	Wood blocks,	842	2,881	1916

TABLE OF PERMANENT PAVEMENTS.—*Continued.*

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.	Year Laid.
Court street,	Main street to Court Square avenue,	Rock asphalt,	317	1,149	1897
Court street,	Main street to Court Square avenue,	Brick,	——	174	1897
Court street,	Main street to Court Square avenue,	Brick,	——	128	1907
Court street,	Court Square avenue to Water street,	Bitulithic,	617	2,699	1911
Court Square avenue,	Court to Elm street,	Sheet asphalt,	193	503	1897
Court Square avenue,	Court to Elm street,	Brick,	——	330	1897
Cross street,	Main to Willow,	Wood blocks,	316	897	1913
Crossett lane,	Main to Willow,	Wood blocks,	310	738	1919
Cypress street,	At Fulton street,	Granite blocks on concrete,	31	115	1915
Dwight street,	State to Lyman,	Wood blocks,	2,566	17,846	1918
Dwight street,	Lyman to Liberty,	Brick,	399	1,955	1915
East Court street,	Main to Market,	Rock asphalt,	117	297	1900
East Court street,	Market to Dwight,	Wood blocks,	294	740	1912
Eastern avenue,	State street to Wilbraham road,	Bitulithic,	84	340	1913
Elm street,	Main to Court Square avenue,	Sheet asphalt,	343	949	1897
Elm street,	Main to Court Square avenue,	Brick,	——	330	1897
Emery street,		Wood blocks,	611	2,068	1914
Ferry street,	Main street to foot of hill,	Bitulithic,	1,389	3,597	1910
Ferry street,	Foot of hill to Chestnut,	Granite blocks,	104	265	1915
Fulton street,	Cypress to Auburn,	Granite blocks,	1,505	9,041	1916
Fulton street,	East side at Emery,	Granite blocks,	——	534	1919
Harrison avenue,	Main to Market street,	Sheet asphalt,	210	816	1916
Harrison avenue,	Market to Dwight street,	Sheet asphalt,	377	1,439	1915
Harrison avenue,	Dwight to Chestnut street,	Granite blocks,	224	924	1915
Hayden alley,	Hayden to Andrew street,	Mixed concrete,	183	292	1917
Hickory street,	Walnut to Eastern avenue,	Brick,	792	1,644	1917
Hillman street,	Dwight to Chestnut,	Granite blocks,	284	857	1915
Hubbard avenue,	Main to Willow street,	Wood blocks,	382	722	1915

TABLE OF PERMANENT PAVEMENTS.—*Continued.*

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.	Year Laid.
King street,	Street Railway turnout,	Wood blocks,	317	1,023	1908
Liberty street,	Main street, easterly 311 feet,	Bitulithic,	311	1,335	1911
Liberty street,	Extension to foot of hill,	Wood blocks,	799	3,366	1915
Liberty street,	Foot of hill at Chestnut street,	Granite blocks,	306	1,272	1915
Liberty street,	Chestnut to Cass,	Brick,	1,399	4,571	1900
Liberty street,	Cass street to Heywood avenue,	Brick,	1,147	3,971	1901
Liberty street,	Heywood avenue to Armory street,	Brick,	2,030	7,260	1916
Locust street,	At watering trough,	Brick,	——	50	1913
Locust street,	Main to Mill, between tracks,	Brick,	——	1,135	1913
Locust street,	Main to Mill,	Bitulithic,	826	3,153	1913
Lyman street,	East and west of Dwight street between tracks,	Granite blocks,	——	200	1915
Lyman street,	Dwight street intersection,	Wood blocks,	75	313	1918
Magazine street,	Worthington to Lincoln,	Grit asphalt,	961	3,992	1914
Main street,	Locust to Marble,	Brick,	840	4,381	1897
Main street,	Marble to William,	Brick,	1,762	8,307	1896
Main street,	Bliss to William, between tracks,	Wood blocks,	1,150	1,854	1906
Main street,	Bliss to Park, east side,	Wood blocks,	——	971	1916
Main street,	Park to William, east side,	Wood blocks,	——	——	1917
Main street,	Bliss to William, west side,	Wood blocks,	——	3,635	1917
Main street,	Bliss to State,	Brick,	241	1,355	1893
Main street,	State to Worthington,	Wood blocks,	1,899	10,798	1904
Main street,	Worthington to Hampden, west side,	Wood blocks,	382	1,183	1904
Main street,	Worthington to Lyman, east side,	Wood blocks,	——	1,137	1917
Main street,	Hampden to Lyman, west side,	Wood blocks,	153	600	1903
Main street,	Lyman to Liberty,	Wood blocks,	484	2,780	1903
Main street,	Liberty to Sharon, east side,	Wood blocks,	453	1,135	1903
Main street,	Liberty to Sharon, west side,	Wood blocks,	——	1,487	1907

TABLE OF PERMANENT PAVEMENTS.—*Continued.*

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.	Year Laid.
Main street,	Sharon to Franklin,	Wood blocks,	509	2,103	1907
Main street,	near Franklin, east side,	Brick,	36	144	1907
Main street,	Franklin to Carew, east side,	Brick,	1,302	4,605	1897
Main street,	Franklin to Greenwood, bet. tracks,	Brick,	——	360	1914
Main street,	Emery to Seventh, west side,	Wood blocks,	1,105	3,203	1915
Main street,	Clinton to Sargeant, west side, between tracks,	Wood blocks,	——	511	1915
Main street,	Clinton to Carew, west side, between tracks and "Green,"	Concrete,	——	217	1915
Main street,	Seventh to Sargeant, west side,	Grit asphalt on old brick,	350	941	1914
Main street,	Crossing opposite Auburn street,	Brick,	——	163	1903
Main street, I. O.,	305 feet west of Oak street to east line of French Church,	Grit asphalt,	1,362	7,098	1915
Maple street,	North line of Avon place to Central street,	Grit asphalt,	242	1,028	1915
Mill street,	Locust street, easterly,	Brick,	——	511	1913
New street,		Mixed concrete,	348	850	1916
North street,	Liberty to Carew,	Bitulithic,	2,246	11,601	1914
North Main street,	Carew to Morgan,	Wood blocks,	789	4,194	1915
North Main street,	Morgan to Bancroft,	Wood blocks,	879	4,544	1909
North Main street,	Bancroft to Calhoun,	Wood blocks,	839	4,210	1910
North Main street,	Calhoun to Grove,	Wood blocks,	673	3,466	1911
North Main street,	Grove to Thomas,	Wood blocks,	691	2,536	1912
North Main street,	Grove to Thomas, between rails,	Wood blocks,	——	1,012	1913
North Main street,	Thomas street to Chicopee line,	Wood blocks,	3,266	16,151	1913
North Main street,	At Wason avenue,	Brick,	——	196	1908
Oak street, I. O.,	Main to south line of Worcester street,	Grit asphalt,	364	1,684	1916
Orange street,	Intersection of White street,	Brick,	85	370	1914

TABLE OF PERMANENT PAVEMENTS.—*Continued.*

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.	Year Laid.
Park street,	Main to Willow,	Wood blocks,	326	1,014	1915
Pearl street,	Spring to Byers,	Granite blocks,	244	741	1918
Plainfield street,	Sargeant street, westerly,	Brick,	1,456	8,690	1902
Plainfield street,	Extension to B. & M. R. R.,	Brick,	254	1,559	1916
Plainfield street,	B. & M. R. R., northerly (includes 188 feet in West street),	Granite blocks,	396	3,073	1916
Plainfield street,	Granite blocks to Wason avenue,	Grit asphalt,	4,939	19,477	1917
Post Office square,	Worthington to Fort street,	Mixed concrete,	80	111	1914
Pynchon street,	Main to Water,	Bitulithic,	870	2,866	1911
Railroad street,	Water street, easterly,	Granite blocks,	326	1,246	1915
Sanford street,	Main to Market,	Sheet asphalt,	102	207	1900
Sanford street,	Market to Dwight,	Wood blocks,	246	806	1912
Spring street,	State to Worthington,	Bitulithic,	1,820	6,133	1913
Spring street,	Worthington to Lyman,	Granite blocks,	507	1,739	1913
State street,	Water street, easterly,	Wood blocks,	360	1,321	1914
State street,	Main street, westerly,	Wood blocks,	598	2,357	1909
State street,	Main to Dwight,	Wood blocks,	478	2,403	1908
State street,	At Dwight street,	Wood blocks,	——	79	1914
State street,	Dwight to Maple,	Granite blocks,	344	1,936	1914
State street,	Spring street to wood block,	Granite blocks,	1,281	8,797	1919
State street,	Walnut street, westerly,	Wood blocks,	527	4,063	1914
State street,	Federal to Oak,	Brick,	847	4,590	1897
State street,	At Walnut street,	Brick,	——	278	1908
State street,	At St. James avenue,	Brick,	——	183	1907
State street,	Oak to Stebbins,	Wood blocks,	762	3,031	1909
State street,	Stebbins to Terrence,	Wood blocks,	386	1,497	1910
State street,	Terrence to Westminster,	Wood blocks,	639	3,256	1911

TABLE OF PERMANENT PAVEMENTS.—*Continued.*

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.	Year Laid
State street,	Oak to Westminster, widening to north and south curb, from Oak to Terrence, and between tracks Terrence to Westminster,	Wood blocks,	——	4,854	1913
State street,	Westminster to Buckingham,	Wood blocks,	360	2,520	1913
State street,	Buckingham to Sherman,	Bitulithic,	477	5,596	1913
State street,	Sherman to Catharine,	Grit asphalt,	190	782	1915
State street,	Catharine to N. Y., N. H. & H. R. R.,	Wood blocks,	633	3,112	1915
State street,	N. Y., N. H. & H. R. R. to Amaron street,	Wood blocks,	1,106	4,271	1912
State street,	N. Y., N. H. & H. R. R. to Amaron, between rails,	Wood blocks,	——	1,490	1913
State street,	Amaron to Pine Point,	Hassam concrete,	6,860	36,871	1914
St. James avenue,	175 feet west of Dartmouth to 175 feet east of Princeton,	Grit asphalt,	1,182	6,198	1917
St. James avenue,	N. Y., N. H. & H. R. R. to B. & A. R. R.,	Hassam concrete,	1,945	9,195	1913
St. James avenue,	B. & A. R. R. to Chicopee line,	Mixed concrete,	6,547	13,094	1915
Stockbridge street,	Main to Willow,	Wood blocks,	317	770	1914
Summer street,	Armory street, westerly,	Old granite blocks,	376	1,306	1914
Sumner avenue,	Oakland street to "X," between tracks,	Grit asphalt,	——	2,073	1915
Sumner avenue,	Oakland street to "X," south side,	Grit asphalt,	1,244	3,053	1915
Sumner avenue,	Intersection of Belmont avenue,	Brick,	——	83	1914
Taylor street,	Dwight to Chestnut,	Wood blocks,	396	1,465	1914
Townsley avenue,		Bitulithic,	142	214	1908
Union street,	Main to Willow,	Wood blocks,	331	1,110	1914
Vernon street,		Bitulithic,	821	2,047	1911

TABLE OF PERMANENT PAVEMENTS.—*Concluded.*

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.	Year Laid.
Walnut street,	State to Union, west side,	Brick,	——	721	1899
Walnut street,	Union to Pine, west side,	Brick,	——	1,446	1900
Walnut street,	Front of Engine house,	Wood blocks,	——	98	1914
Walnut street,	State to Pendleton ave., east side,	Wood blocks,	1,521	2,168	1914
Walnut street,	State to Pendleton ave., between rails,	Wood blocks,	——	753	1913
Walnut street,	Pendleton ave. to King street, between rails,	Grit asphalt,	——	246	1915
Walnut street,	Pendleton avenue to Six Corners,	Wood blocks,	2,068	6,573	1915
Walnut street,	Six Corners to top of hill,	Grit asphalt,	1,066	3,485	1914
Water street,	Hampden to Cypress,	Granite blocks,	879	5,971	1915
West street,	North of Park,	Grit asphalt,	437	1,332	1916
West street,	South of Park,	Grit asphalt,	106	881	1916
West street,	At B. & M. Bridge (see Plainfield street),	Granite blocks,			
White street,	Near Allen to Orange, between rails,	Brick,	1,610	2,400	1902
Wilbraham road,	Winchester street to N. Y., N. H. & H. R. R.,	Bitulithic,	657	3,255	1913
William street,	Main to Dale,	Mixed concrete,	593	1,898	1914
Willow street,		Wood blocks,	1,189	3,443	1912
Worthington street,	Water street to Broadway,	Wood blocks,	299	1,061	1909
Worthington street,	Main to Dwight,	Sheet asphalt on old brick,	747	2,590	1917
Worthington street,	Dwight street to Fairbanks place,	Brick,	1,040	2,905	1901
Worthington street,	Chestnut street to Fairbanks place, north side,	Wood blocks,	——	897	1917
*Worthington street,	Fairbanks place to east line of Spring street,	Brick,	269	1,003	1903
Worthington street,	At Sackett place,	Wood blocks,	265	886	1908
Worthington street,	Federal to Armory,	Wood blocks,	374	1,312	1908

*Relaid on north side with old material, 1917.

RECAPITULATION.

Wood blocks,	6.42 miles
Brick,	3.50 miles
Mixed concrete,	5.01 miles
Bitulithic,	2.29 miles
Grit asphalt,	3.34 miles
Hassam,	1.67 miles
Granite blocks,	1.77 miles
Sheet asphalt,	.40 miles
Sheet asphalt on brick,	.14 miles
Grit asphalt on brick,	.07 miles
Asphalt blocks,	.04 miles
Total,	24.65 miles

STREET CONSTRUCTION.

BITUMINOUS MACADAM.

Street.	Limits.	Length in feet.	Area in sq. yds.	Depreciation.	Indirect Cost.	Total Cost.	Cost per sq. yd.
Alleyw'y r. Hotel Gilmore	Pynchon to Court street,	275	699	$10.99	$86.89	$955.87	$1.37
College street,	Extension to Acorn,	857	2,867	24.56	278.78	3,066.54	1.07
*Dunmoreland street,	Westford circle to King street,	545	1,653	11.43	91.44	1,585.27	1.13
Herman street,	Sumner avenue to Vermont st.,	540	1,626	20.30	215.35	2,368.82	1.46
*Kendall street,	Liberty to Sherman	914	2,779	6.76	59.68	985.41	1.17
Lester street,		650	2,167	30.81	303.05	3,333.60	1.54
‡Longhill street,	Pecousic brook northerly,	335	1,523	21.53	205.47	2,260.04	1.48
Malden street,	Grand to Allen,	877	2,961	29.00	325.34	3,578.79	1.21
Marion street,	McKnight to Pease,	422	1,407	15.15	146.36	1,609.94	1.14
‡McKnight street,	Bowles to Marion,	275	955	12.44	91.68	1,008.52	1.06
*†Noel street,	Mill to Oakland,	870	2,886	24.76	265.87	2,924.61	1.35
Parker street, I. O.,	At Main,	.....	332	8.08	54.72	601.94	1.81
Pecousic avenue,	South of Agawam.,	290	443	10.68	71.77	789.48	1.78
†Shefford street,	Springfield to Caseland,	430	1,434	4.76	61.81	679.94	1.21
Stratford terrace,		532	2,315	38.52	319.88	3,518.74	1.52
‡Trafton road,		2,035	7,264	92.39	841.81	9,259.80	1.27
‡Trafton road, widening,	north side at cor. Dickinson,	230	847	21.19	148.38	1,632.09	1.93
Water street, widening,	north line, Court to Bridge,	1,005	5,137	65.86	540.92	5,950.11	1.16
Water street, widening,	north line, Court to Elm,	245	1,252	15.78	133.22	1,465.30	1.17
Totals,		11,327	40,547	$464.99	$4,242.42	$47,574.81	....

WATER-BOUND MACADAM.

Frost street,		204	542	$6.92	$49.85	$548.30	$1.01

* Denotes completion of 1918 work. Unit cost includes 1918 work.
† Denotes completion of 1917 work. Unit cost includes 1917 work.
‡ Asphalt penetration.

STREET CONSTRUCTION.

PAVING RECAPITULATION.

	Length in feet.	Area in sq. yds.	Cost per sq. yd.	Cost.
Wood block,.....	310	738	$6.75	$4,980.39
Granite block,.....	1,425	9,331	6.21	57,925.46
Total,.....	1,735	10,069	....	$62,905.85

MACADAM RECAPITULATION.

	Length in feet.	Area in sq. yds.	Cost per sq. yd.	Cost.
Water-bound,.....	204	542	$1.01	$548.30
Bituminous,.....	8,568	31,795	1.30	41,399.58
Bituminous, completion of 1917 and 1918 work,.....	.....	.....	.....	6,175.23
Total,.....	8,772	32,337	.....	$48,123.11

TABLE OF SURFACE PAVEMENT.

Name	Limits.	Material.	Length in feet.	Area in sq. yds.
Abbe avenue,	Bridge approach,	Water-bound macadam,	872	2,325
Abbe avenue,	Fisk avenue to Plainfield street,	Bituminous macadam,	658	2,217
Abbe avenue,	Plainfield to river,	Bituminous macadam,	934	3,113
Acushnet avenue,		Water-bound macadam,	1,088	3,385
Adams street,		Bituminous concrete,	1,020	3,505
Agawam street,		Bituminous concrete,	230	809
Albany street,	Land of Hampden Paint Co. to Glen road,	Bituminous macadam,	636	1,484
Albemarle street,		Bituminous macadam,	1,493	4,977
Alden street,	Walnut street to Eastern avenue,	Bituminous concrete,	1,349	4,533
Alden street,	Eastern avenue to Woodbine avenue,	Tar top,	1,818	4,899
Alderman street,		Bituminous macadam,	1,325	5,444
Alexander street,		Water-bound macadam,	414	1,380
Alfred street,		Water-bound macadam,	490	1,635
Allen street,	White street to N. E. R. R.,	Water-bound macadam,	3,573	1,191
Allen street,	Oakland to White street,	Tar top,	444	1,439
Allendale street,		Water-bound macadam,	663	2,094
Amaron street,		Bituminous macadam,	408	1,475
Amherst street,	Harvard to Monmouth,	Water-bound macadam,	1,233	4,069
Andrew street,	State to Dawes,	Tar top,	1,290	4,273
Arbor street,		Water-bound macadam,	437	1,222
Arch street,	Main street, westerly,	Water-bound macadam,	410	1,366
Arch street,	Extension to Birnie avenue,	Bituminous macadam,	293	1,002
Armory street,	B. & A. R. R. to Napier street,	Bituminous macadam,	294	1,097
Armory street,	Napier street to top of hill,	Water-bound macadam,	945	2,909
Armory street,	Top of hill to Liberty street,	Bituminous macadam,	386	1,272
Armory street,	Liberty to Carew,	Bituminous concrete,	1,561	5,351
Armory street,	Carew to Springfield,	Bituminous macadam,	4,267	14,406
Ashley street,		Water-bound macadam,	1,378	4,592

TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Ashmun street,	Central to Adams,	Bituminous macadam,	266	904
Atwater terrace,		Water-bound macadam,	1,000	3,333
Auburn street,		Sheet asphalt,	782	1,996
Autumn street,		Bituminous concrete,	206	531
†Avon place,		Water-bound macadam,	711	2,924
Bailey square,	See Locust street,	Water-bound macadam,	——	——
Bancroft street,	Main to North,	Bituminous macadam,	884	2,976
Bancroft street,	North to Chestnut,	Water-bound macadam,	551	1,889
Banks place,		Water-bound macadam,	195	464
Bartlett street,		Bituminous macadam,	571	2,210
Bay street,	St. James avenue to Catharine street,	Bituminous concrete,	2,772	9,718
Bay street,	N. E. R. R. to Cambridge street,	Tar top,	416	1,387
Bay street,	Cambridge to Sycamore,	Bituminous macadam,	684	2,360
Beaumont street,	Dickinson street to Belmont avenue,	Water-bound macadam,	689	2,295
Beech street,		Water-bound macadam,	528	1,303
Beechwood street,	Sumner avenue to Spruceland avenue,	Water-bound macadam,	501	1,670
Belmont avenue,	Sumner avenue to White street,	Bituminous macadam,	3,634	19,434
Belmont place,		Water-bound macadam,	221	669
Benton street,		Bituminous macadam,	1,485	5,131
Berkeley street,		Water-bound macadam,	453	1,510
Berkshire avenue, I.O.,	Chestnut street, westerly, south side of tracks,	Glutrin-bound macadam,	668	1,128
Berkshire avenue, I.O.,	Extension, westerly, south side of tracks,	Water-bound macadam,	618	1,030
Berkshire avenue, I.O.,	Chestnut street, westerly, north side of tracks,	Glutrin-bound macadam,	2,167	3,649
Berkshire avenue, I.O.,	State to Oak street, between tracks,	Water-bound macadam,	——	**31,291
Berkshire street, I.O.,	At Chestnut,	Water-bound macadam,	75	1,124
Berkshire street, I.O.,	Chestnut to Oak,	Bituminous macadam,	1,325	5,409
Birnie avenue,	Plainfield to Greenwich,	Bituminous macadam,	1,667	5,589
Birnie avenue,	Greenwich street to Wason avenue,	Bituminous concrete,	3,419	14,328

TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Blake Hill,		Water-bound macadam,	347	628
Bliss street,	Water street to N. Y., N. H. & H. R. R.,	Water-bound macadam,	266	852
Bloomfield street,		Bituminous macadam,	1,939	6,614
Bond street,	Main street to foot of hill,	Tar top,	1,520	5,076
Bond street,	Foot of hill to Chestnut street,	Water-bound macadam,	49	154
Bowdoin street,	St. James avenue to Lincoln street,	Bituminous concrete,	253	945
Bowdoin street,	Lincoln street to Ingersoll grove street,	Water-bound macadam,	1,691	5,532
Bowles street,	Bay to McKnight,	Water-bound macadam,	750	2,500
Bowles street,	McKnight to Pease,	Bituminous macadam,	400	1,331
Boylston street,		Water-bound macadam,	864	1,921
Bradford street,	Plainfield to Fulton,	Water-bound macadam,	741	2,472
Bridge street,	Main street westerly 493′,	Bituminous concrete,	493	1,746
Bridge street,	Water street to Toll bridge,	Granite blocks on sand,	249	713
Broad street,		Water-bound macadam,	959	3,177
Broadway,		Bituminous macadam,	705	3,219
Brookline avenue,		Water-bound macadam,	615	2,050
Brown street,		Bituminous macadam,	508	1,687
Bryant street,		Bituminous macadam,	897	2,990
Buckingham place,		Water-bound macadam,	275	916
Buckingham street,		Water-bound macadam,	2,006	6,678
Burlington street,		Bituminous macadam,	352	1,096
Burr street,		Bituminous macadam,	840	2,339
Butler street,		Water-bound macadam,	1,525	2,885
Byers street,	State to Frost,	Water-bound macadam,	480	1,193
Calhoun street,		Water-bound macadam,	1,129	3,435
Cambridge street,		Bituminous macadam,	1,564	4,899
Carew street,	Main to Chestnut,	Bituminous macadam,	1,620	5,463
Carew street,	Chestnut to near Bartlett,	Water-bound macadam,	998	2,209

TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Carew street,	"Driscoll's by-pass,"	Bituminous macadam,	700	4,499
Carew street,	Armory street, westerly,	Bituminous macadam,	704	2,382
Carew street,	Armory to Liberty,	Bituminous macadam,	1,632	7,382
Cass street,	Liberty to Franklin,	Tar top,	623	1,937
Cass street,	Franklin to Butler,	Sheet asphalt,	1,140	3,698
Caseland street,		Bituminous macadam,	1,154	5,419
Catharine street,	Bay to Dartmouth,	Water-bound macadam,	150	493
Cedar street,		Tar top,	1,725	5,992
Central street,	Main to Ashmun,	Bituminous concrete,	885	2,809
Central street,	Ashmun to Maple,	Water-bound macadam,	476	1,285
Central street,	Maple to Cedar,	Water-bound macadam,	1,010	2,786
Central street,	Cedar to Spruce,	Sheet asphalt,	1,572	5,385
Central street,	Spruce to Mill,	Grit asphalt,	1,357	4,660
Center street,	Oak Grove avenue to Acorn street,	Bituminous macadam,	1,046	3,057
Centre street, I.O.,	Cedar street, easterly,	Bituminous macadam,	382	1,273
Chapel street,		Bituminous macadam,	443	1,397
†Chapin terrace,	Chestnut to Marvin,	Water-bound macadam,	601	3,112
Chapin terrace,	Marvin street to 125′ east of Narragansett,	Bituminous macadam,	466	2,729
Charles street,	Liberty to Franklin,	Bituminous concrete,	626	1,940
Charles street,	Liberty street to land of B. & A. R. R.,	Granite blocks on sand,	150	376
Chase avenue,		Water-bound macadam,	583	1,943
Cherryvale avenue,		Water-bound macadam,	687	2,290
Chester street,		Bituminous macadam,	910	2,702
Chestnut street,	State street to top of hill,	Glutrin-bound macadam,	207	552
Chestnut street,	Top of hill to Edwards street,	Bituminous concrete,	599	1,901
Chestnut street,	Edwards street to Harrison avenue,	Rocmac,	173	590
Chestnut street,	Harrison avenue to Pearl street,	Bituminous concrete,	281	2,630
Chestnut street,	Bridge to Worthington,	Bituminous concrete,	441	

TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Chestnut street,	Worthington to Linden,	Granite blocks on sand,	2,368	8,389
Chestnut street,	Jefferson avenue to Springfield street, west side,	Bituminous macadam,	1,840	4,388
Chestnut street,	Jefferson avenue to Springfield street, east side,	Bituminous macadam,	——	4,604
Chestnut street,	Montmorenci to Springfield,	Water-bound macadam,	——	**2,908
Chestnut street,	Springfield to Eagle street,	Tar top,	930	2,754
Church street,		Tar top,	832	2,579
Churchill street,		Water-bound macadam,	575	1,919
City Hall alley,	Pynchon to Court,	Bituminous macadam,	275	690
Clantoy street,		Bituminous macadam,	1,251	4,224
Clarendon street,	Bay street to Dartmouth terrace,	Water-bound macadam,	1,592	6,038
Clark street,		Water-bound macadam,	619	1,100
Clifford street,		Bituminous macadam,	449	1,497
Clifton avenue,		Bituminous macadam,	518	1,140
Cliftwood street,		Bituminous macadam,	458	1,163
Clinton street,		Bituminous concrete,	672	1,813
Clyde street,		Bituminous macadam,	460	1,329
College street,	State street to Wilbraham road,	Water-bound macadam,	527	1,522
College street,	State street to Acorn street,	Bituminous macadam,	1,935	6,731
Collins street,		Bituminous macadam,	519	1,571
Colton street,	Wilbraham road to Union street,	Bituminous concrete,	772	1,970
Colton street,	Union to Beacon street,	Bituminous macadam,	848	2,627
Commonwealth ave.,	Belmont avenue to Glenwood street,	Bituminous macadam,	1,094	3,506
Concord terrace,		Bituminous macadam,	339	1,507
Congress street,	Main to North,	Bituminous concrete,	932	2,386
Congress street,	North street to foot of hill,	Bituminous concrete,	314	803
Congress street,	Foot of hill to Chestnut street,	Water-bound macadam,	244	576
Continental avenue,		Bituminous macadam,	453	1,510
Cornell street,		Water-bound macadam,	1,283	4,275

TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Cortland street,		Bituminous macadam,	650	2,167
Coomes street,		Bituminous macadam,	429	1,223
Crane street,		Bituminous macadam,	416	1,455
Cross street,	Willow to Maple,	Water-bound macadam,	608	1,416
Crystal avenue,		Water-bound macadam,	930	3,100
Cumberland street,	Main to North,	Bituminous macadam,	372	1,240
Cumberland street,	North to Chestnut,	Water-bound macadam,	426	1,420
Cypress street,	Main to Fulton,	Granite blocks on sand,	644	2,433
Dale street,		Sheet asphalt,	828	2,159
Dartmouth street,		Water-bound macadam,	1,132	5,159
Dartmouth terrace,	Cornell street, southerly,	Water-bound macadam,	488	2,544
Dartmouth terrace,	Worthington to Clarendon, west roadway,	Bituminous macadam,	411	939
Dawes street,		Bituminous macadam,	1,237	4,125
Daytona street,		Bituminous macadam,	590	1,966
Demond avenue,		Water-bound macadam,	859	2,863
Dickinson street,	Between tracks on hill,	Bituminous macadam,	692	354
Dickinson street,	Bailey square to Marengo park,	Water-bound macadam,	761	3,733
Dickinson street,	Marengo park to the "X",	Bituminous concrete,	3,122	16,402
Dickinson street,	"X" to Longmeadow line,	Bituminous macadam,	2,668	11,215
Donald street,		Bituminous macadam,	444	1,480
Dorchester street,		Water-bound macadam,	567	1,887
Douglas street,		Water-bound macadam,	540	1,800
Dresden street,		Bituminous macadam,	748	2,489
Dunmoreland street,	Wilbraham road to King street,	Bituminous macadam,	2,026	6,598
Eagle street,		Tar top,	568	1,894
East Hooker street,		Water-bound macadam,	679	1,786
Eastern avenue,	Wilbraham road to King street,	Bituminous concrete,	2,052	7,199
Eastern avenue,	King to Alden street,	Tar top,	1,257	4,460

TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Eastern avenue,	Alden to Hickory street,	Bituminous concrete,	1,257	4,372
Edwards street,		Water-bound macadam,	675	2,219
Elliott street,		Bituminous concrete,	1,007	3,342
Elm street,	Court Square avenue to Water street,	Bituminous concrete,	606	2,076
Elm street,	Water street to N. Y., N. H. & H. R. R.,	Water-bound macadam,	243	608
Elmwood street,		Water-bound macadam,	886	2,738
Essex street,	Main to North,	Tar top,	891	2,871
Essex street,	North to foot of hill,	Bituminous concrete,	454	1,462
Essex street,	Foot of hill to Chestnut street,	Water-bound macadam,	198	639
Euclid avenue,		Water-bound macadam,	1,169	3,896
Everett street,		Water-bound macadam,	1,500	4,859
Fairfield street,		Water-bound macadam,	882	2,940
Farnsworth street,	Hamburg street, easterly, 20′ wide,	Water-bound macadam,	513	1,710
Farnsworth street,	Extension to Chicopee line,	Bituminous macadam,	882	2,983
Federal street,	At Pearl street,	Bituminous concrete,	124	464
Federal street,	Pearl to Summer,	Water-bound macadam,	949	3,814
Firglade avenue,	Maplewood terrace to Pineywoods avenue,	Water-bound macadam,	1,332	4,433
Firglade avenue,	Pineywoods avenue to Washington boulevard,	Bituminous macadam,	520	1,733
Fisk avenue,		Water-bound macadam,	1,682	6,240
Florence street,	Pine to Hancock,	Water-bound macadam,	1,582	4,346
Florence street,	Hancock to Walnut,	Bituminous macadam,	281	927
Florentine Gardens,		Water-bound macadam,	706	3,501
Florida street,	Bay street to St. James avenue,	Tar top,	543	1,811
Florida street,	St. James avenue to Ingersoll grove,	Tar top,	1,653	5,087
Forest street,		Water-bound macadam,	784	2,502
Forest Park avenue,	Sumner avenue to Pineywoods,	Bituminous macadam,	832	3,015
Forest Park avenue,	Sumner avenue to Forest street,	Water-bound macadam,	752	3,846
Forest Park avenue,	Forest st. to Fort Pleasant ave., 22½′ wide,	Water-bound macadam,	1,760	4,475

TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Fort street,		Granite blocks on sand,	670	1,770
Fort Pleasant avenue,	Mill street to Chase avenue and Warner street to Sumner avenue,	Water-bound macadam,	1,793	7,325
Fort Pleasant avenue,	East side Mill street, southerly,	Tar top,	——	3,000
Fort Pleasant avenue,	Belmont to Sumner avenue, westerly car track,	Bituminous macadam,	——	2,338
Fort Pleasant avenue,	Chase avenue to Warner street,	Tar top,	1,001	7,065
Foster street,		Water-bound macadam,	740	2,034
Franklin street,	Main to Webster,	Water-bound macadam,	3,553	12,176
Franklin street,	Webster to Genesee, 20′ wide,	Water-bound macadam,	1,139	3,797
Fremont street,		Bituminous concrete,	780	2,622
Fulton street,	Plainfield to Auburn,	Tar top,	1,960	7,123
Fulton street,	At Plainfield,	Water-bound macadam,	267	890
Gardner street,	Main to Water,	Bituminous concrete,	461	1,545
Gardner street,	Water to Hanover,	Water-bound macadam,	653	2,168
Garfield street,		Bituminous concrete,	1,380	4,721
Genesee street,	Liberty to Warwick,	Bituminous macadam,	644	2,423
Genesee street,	Liberty to Franklin, 20′ wide,	Water-bound macadam,	276	821
Genesee street,	Franklin to Dunn,	Bituminous macadam,	285	1,026
George street,	Maple street, westerly,	Bituminous macadam,	171	647
George street,	Extension to Pine street,	Bituminous concrete,	358	1,117
Gordon street,		Bituminous macadam,	541	2,066
Governor street,		Bituminous macadam,	1,405	4,683
Grace street,		Water-bound macadam,	354	885
Grant street,		Water-bound macadam,	577	1,603
Granville street,		Bituminous macadam,	453	1,358
Gray's avenue,		Sheet asphalt,	568	1,325
Greenacre square,		Water-bound macadam,	415	856
Greene street,		Water-bound macadam,	1,347	4,490

TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Greenleaf street,		Water-bound macadam,	740	3,098
Greenwich street,		Water-bound macadam,	643	2,143
Greenwood street,	Main to North,	Bituminous concrete,	930	3,110
Greenwood street,	North to foot of hill,	Bituminous concrete,	388	1,295
Greenwood street,	Foot of hill to Chestnut,	Water-bound macadam,	184	602
Grenada terrace,		Bituminous macadam,	1,095	5,820
Grosvenor street,		Water-bound macadam,	738	2,286
Grove street,		Water-bound macadam,	612	1,734
Grover street,		Bituminous macadam,	1,343	4,156
Hall street,		Water-bound macadam,	992	3,307
Hamburg street,	Springfield street to angle 20′ wide,	Water-bound macadam,	574	1,786
Hamburg street,	Angle to Silver street,	Bituminous macadam,	184	647
Hampden street, I. O.,	Oak to Pine,	Bituminous macadam,	517	2,068
Hampden street,		Bituminous concrete,	606	2,360
Hancock street,	State to Walnut,	Tar top,	3,231	11,396
Hancock street,	Walnut to Clark,	Water-bound macadam,	885	2,949
Hancock street,	Clark to Central,	Bituminous macadam,	510	2,024
Harriet street,		Water-bound macadam,	816	2,720
Harvard street,		Water-bound macadam,	1,565	5,206
Hawley street,		Bituminous macadam,	368	1,226
Hawthorne street,		Water-bound macadam,	540	1,374
Hebron street,		Water-bound macadam,	698	2,204
Herman street,		Bituminous macadam,	540	1,626
Heywood street,		Water-bound macadam,	250	833
Hiawatha street,		Bituminous macadam,	481	1,709
Hickory street,	Eastern avenue to Shefford street and Alden street to Carlisle brook,	Water-bound macadam,	3,918	9,945
Hickory street,	N. Y., N. H. & H. R. R. to Alden street,	Bituminous macadam,	1,080	2,573

TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
High street,	Maple to School,	Tar top,	763	1,926
High street,	School to Walnut,	Water-bound macadam,	1,800	3,618
Hillman street,	Main to Dwight,	Bituminous concrete,	648	2,025
Hollywood street,		Bituminous macadam,	736	2,513
Holyoke street,		Water-bound macadam,	776	2,001
Home street,		Bituminous macadam,	761	2,674
Homer street,		Water-bound macadam,	582	1,940
Horace street,		Bituminous macadam,	770	2,557
Howard street,	Main to Water,	Bituminous concrete,	944	3,171
Howard street,	Water street to railroad,	Water-bound macadam,	333	1,110
Hubbard avenue,	Willow to Dale,	Sheet asphalt,	190	359
Huntington street,		Tar top,	642	2,018
Hyde avenue,		Bituminous macadam,	943	3,151
Ingersoll grove,		Water-bound macadam,	1,395	4,650
Ingraham avenue,		Water-bound macadam,	258	462
Irvington street,		Bituminous macadam,	792	2,840
James street,		Water-bound macadam,	928	2,356
Jasper street,		Water-bound macadam,	983	3,410
Jefferson avenue,		Water-bound macadam,	1,275	6,375
John street,		Water-bound macadam,	640	2,136
Keith street,		Water-bound macadam,	1,107	3,690
Kendall street,		Bituminous macadam,	914	2,779
Kenwood park,		Water-bound macadam,	721	3,888
Kenwood terrace,		Bituminous macadam,	524	2,307
Kibbe avenue,		Water-bound macadam,	213	710
King street,	Walnut to Logan,	Tar top,	2,396	7,951
King street,	Logan to N. Y., N. H. & H. R. R.,	Water-bound macadam,	172	533
King street,	N. Y., N. H. & H. R. R. to Westford avenue,	Bituminous macadam,	684	2,396

TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Knox street,		Bituminous macadam,	1,123	3,839
Ladd street,		Bituminous macadam,	499	1,772
Lafayette street,		Water-bound macadam,	568	1,865
Laurel street,		Bituminous macadam,	553	1,843
Lebanon street,		Tar top,	1,889	5,118
Leete street,		Bituminous macadam,	971	3,414
Leonard street,		Bituminous macadam,	414	1,225
Lenox street,		Bituminous macadam,	450	1,200
Lester street,		Bituminous macadam,	650	2,167
Lexington avenue,	Chestnut to Massasoit street,	Water-bound macadam,	622	1,659
Lexington street,	Massasoit street, easterly,	Bituminous macadam,	430	1,266
Leyfred terrace,		Water-bound macadam,	625	2,102
Liberty street,	Armory street to St. R. R. turnout, south side and tracks,	Tar top,	1,750	3,383
Liberty street,	Armory street to St. R. R. turnout, north side and thence full width to Carew street,	Water-bound macadam,	500	1,888
Liberty street,	Carew street to Chicopee road,	Bituminous macadam,	1,653	5,633
Liberty street,	Chicopee road to Chicopee line,	Water-bound macadam,	——	**8,025
Lillian street,		Water-bound macadam,	387	989
Linden street,		Tar top,	1,285	5,139
Litchfield street,		Water-bound macadam,	384	1,280
Locust street,	Belmont avenue to Dickinson street (includes Bailey square),	Bituminous macadam,	3,068	10,279
Logan street,		Bituminous macadam,	1,167	3,980
Lombard street,		Grit asphalt,	590	1,670
Longhill street,	Main to Warner street (tar gutters),	Water-bound macadam,	1,537	6,665
Longhill street,	Warner street to Sumner avenue,	Water-bound macadam,	475	2,321
Longhill street,	Sumner avenue to Cherryvale street,	Water-bound macadam,	800	3,208

TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Longhill street,	Sumner avenue to Cherryvale street, west track,	Bituminous macadam,	——	715
Longhill street,	Cherryvale avenue to Washington boulevard,	Bituminous macadam,	540	3,404
Longhill street,	Pecousic boulevard, northerly,	Bituminous macadam,	335	1,523
†Longmeadow street,	Longhill street to Longmeadow line,	Water-bound macadam,	2,930	7,813
Longview street,		Bituminous macadam,	551	1,917
Loring street,		Sheet asphalt,	717	2,311
Lowell street,		Water-bound macadam,	1,390	4,633
Lyman street,	Main to Chestnut,	Granite blocks on sand,	1,305	4,158
Lyman street,	Chestnut to Spring,	Granite blocks on sand,	731	3,044
Lyndale street,		Bituminous macadam,	1,059	3,530
Madison avenue,		Water-bound macadam,	529	1,657
Magnolia terrace,	Sumner avenue to Pineywoods avenue,	Water-bound macadam,	1,141	6,209
Magnolia terrace,	Pineywoods avenue to Washington boulevard,	Bituminous macadam,	312	1,832
Main street,	Locust street to Pecousic avenue,	Tar top,	1,573	7,524
Main street,	Pecousic avenue, southerly,	Water-bound macadam,	1,000	3,517
Main street, I. O.,	Front street to asphalt pavement,	Water-bound macadam,	698	2,411
Main street, I. O.,	Front street to asphalt paving,	Water-bound macadam,	——	**364
Main street, I. O.,	Asphalt to Wilbraham line,	Tar top,	4,399	24,852
Malden street,	Allen street to Grand street,	Bituminous macadam,	877	2,961
Manhattan street,		Bituminous macadam,	1,101	2,799
Maple court,		Bituminous macadam,	712	1,760
Maple street,	State street to Avon place,	Bituminous concrete,	1,914	7,167
Maple street,	Central street to top of hill,	Rocmac,	725	2,062
Maple street,	Top of hill to Pine street,	Bituminous concrete,	1,039	3,119
Maple street,	Pine to George,	Tar top,	387	1,142
Maple street,	George to Mill,	Water-bound macadam,	494	1,570
Mapledell street,		Water-bound macadam,	972	3,239
Maplewood terrace,	Ft. Pleasant ave. to Forest Park ave., south side,	Water-bound macadam,	1,301	3,075

TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Maplewood terrace,	Forest Park avenue to Riverview ter., north side,	Water-bound macadam,	——	1,874
Maplewood terrace,	Fort Pleasant ave. to Riverview ter., north side,	Bituminous macadam,	——	1,237
Marble street,	Main street to Willow street extension,	Sheet asphalt,	581	1,949
Marble street,	Willow street extension, easterly,	Water bound macadam,	493	1,559
Marengo park,		Water-bound macadam,	1,869	6,230
Margaret street,	Main to Water,	Bituminous concrete,	844	2,861
Margaret street,	Water street to N. Y., N. H. & H. R. R.,	Water-bound macadam,	534	775
Marion street,		Bituminous macadam,	1,292	4,305
Market street,		Bituminous concrete,	968	1,887
Marshall street,	Includes 103 yds. in Melrose,	Bituminous macadam,	836	2,748
Mason street,		Bituminous macadam,	661	2,203
Massachusetts avenue,		Bituminous macadam,	1,457	7,346
Massasoit street,	Carew to Prospect,	Tar top,	845	2,881
Massasoit street,	Prospect to 143' north of Montmorenci street,	Bituminous macadam,	1,148	3,827
Massasoit street,	Chapin terrace to Pratt street,	Water-bound macadam,	430	1,440
Mattoon street,	(Includes Salem street),	Bituminous concrete,	1,358	4,019
Maynard street,	State to Shattuck,	Bituminous macadam,	782	3,476
McKnight street,	Sherman to Bowles,	Water-bound macadam,	532	1,773
McKnight street,	Bowles to Marion,	Asphalt penetration,	275	955
Medford street,		Water-bound macadam,	624	2,080
Merrick street,		Bituminous macadam,	326	1,021
Merwin street,		Tar top,	701	2,335
Middlesex street,	Wilbraham road to Marlborough street,	Bituminous macadam,	787	2,623
Mill street,	Main to Maple and Mill river to Dickinson,	Water-bound macadam,	2,493	10,788
Mill street,	Maple to Mill river,	Bituminous concrete,	757	2,776
Mill street extension,	Pecousic avenue to Main street,	Bituminous macadam,	520	2,827
Monmouth street,		Water-bound macadam,	1,168	4,000
Monroe street,	Hancock street to Eastern avenue,	Water-bound macadam,	1,345	3,736

TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Monroe street,	Eastern avenue to Colton street,	Bituminous macadam,	281	780
Montmorenci street,		Water-bound macadam,	620	2,067
Montrose street,		Bituminous macadam,	973	3,242
Moore street,		Bituminous macadam,	700	2,333
Mooreland street,		Bituminous macadam,	1,417	3,723
Morgan street,		Bituminous macadam,	849	2,924
Morningside park,	White street to Trinity terrace,	Bituminous macadam,	330	1,232
Morris street,		Water-bound macadam,	1,022	3,031
Mountainview street,		Water-bound macadam,	682	2,330
Mulberry street,	Maple to east side School street,	Bituminous concrete,	703	2,298
Mulberry street,	School to Union,	Water-bound macadam,	1,322	3,223
Murray Hill avenue,		Water-bound macadam,	600	2,000
Myrtle street,		Water-bound macadam,	484	997
Narragansett street,		Bituminous macadam,	1,272	4,364
Nelson street,		Bituminous macadam,	695	2,134
Noel street,	Mill street, southeasterly,	Bituminous macadam,	870	2,886
Norfolk street,		Bituminous macadam,	824	3,160
North street,	Carew street to Jefferson avenue,	Tar top,	2,045	8,243
North street,	Jefferson avenue to Cumberland street,		1,655	6,078
Northampton avenue,	Wilbraham road to Beverly street,	Water-bound macadam,	1,229	4,096
Northampton avenue,	Beverly street to south side of Gunn square,	Bituminous macadam,	438	1,524
Norwood street,		Water-bound macadam,	1,117	2,911
Oak street,		Bituminous concrete,	1,356	4,462
Oak street, I. O.,	Water to Main and Worcester to Berkshire,	Water-bound macadam,	1,105	4,791
Oak street, I. O.,	Worcester to Berkshire,	Water-bound macadam,	——	**1,610
Oak Grove avenue,		Bituminous macadam,	2,792	9,709
Oakland street,	Sumner avenue to Dickinson street,	Bituminous concrete,	1,565	7,075
Oakland street,	Dickinson to top of hill near Water Shops,	Bituminous concrete,	1,888	6,503

TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Oakland street,	Top of hill to Allen street,	Tar top,	515	1,573
Olive street,		Water-bound macadam,	478	1,248
Orange street,	Bailey square to Allen street,	Bituminous macadam,	4,027	15,702
Orchard street,	Plainfield street, westerly,	Water-bound macadam,	1,040	3,467
Orchard street,	Extension to river,	Bituminous macadam,	383	1,247
Orlando street,		Bituminous macadam,	735	2,250
Orleans street,		Water-bound macadam,	1,509	4,293
Ormond street,		Bituminous macadam,	365	1,222
Osgood street,		Water-bound macadam,	894	3,000
Oxford street,		Bituminous macadam,	663	2,219
Page boulevard,	St. James avenue to east line Westinghouse Co. property,	Bituminous macadam,	8,034	30,691
Palmer avenue,		Water-bound macadam,	991	3,177
Park street,	Foot of hill to Maple street,	Water-bound macadam,	539	1,052
Parkwood street,		Water-bound macadam,	450	1,500
Pasco road, I. O.,	Essex street, southerly,	Bituminous macadam,	611	2,475
Patton street,	Main to North,	Tar top,	868	3,007
Patton street,	North to foot of hill,	Bituminous concrete,	488	1,627
Patton street,	Foot of hill to Chestnut,	Water-bound macadam,	217	723
Pearl street,	Chestnut to Spring,	Bituminous concrete,	983	2,817
Pease street,		Bituminous macadam,	382	1,468
Pecousic avenue,	Gardner to Main street,	Bituminous macadam,	2,301	17,267
Pecousic avenue,	Main to Agawam, east roadway,	Bituminous macadam,	——	3,436
Pecousic avenue,	Main street to Leary's line,	Bituminous concrete,	2,691	8,727
Pecousic avenue,	Leary's line to Longhill street,	Bituminous macadam,	1,420	3,313
Pendleton avenue,		Tar top,	2,586	6,467
Phoenix street,		Bituminous macadam,	602	2,101
Pine street,	Mill to Maple,	Water-bound macadam,	1,003	1,348

TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Pine street,	Maple to Walnut,	Bituminous concrete,	3,417	12,996
Pineywoods avenue,	Washington boulevard to Florentine Gardens,	Bituminous macadam,	490	1,633
Pineywoods avenue,	Florentine Gardens to Washington road,	Water-bound macadam,	1,273	4,243
Pineywoods avenue,	Washington road to Forest Park avenue,	Bituminous macadam,	329	1,097
Plainfield street,	Wason avenue to Chicopee line,	Bituminous macadam,	423	979
Pleasant street,		Tar top,	428	1,141
Plymouth street,		Water-bound macadam,	479	1,597
Pomona street,		Bituminous macadam,	882	3,157
Portland street,		Water-bound macadam,	610	2,033
†Pratt street,		Water-bound macadam,	600	2,000
Prince street,		Bituminous macadam,	327	1,098
Princeton street,	Bay to Cornell,	Water-bound macadam,	1,776	7,219
Princeton street,	Bay street to St. James avenue,	Water-bound macadam,	——	**1,496
Prospect street,	Massasoit to Carew,	Water-bound macadam,	817	2,996
Queen street,	Walnut to Hancock,	Bituminous macadam,	742	1,897
Quincy street,	Oak street to Eastern avenue,	Water-bound macadam,	2,704	7,780
Quincy street,	Eastern avenue to Colton street,	Bituminous macadam,	274	848
Railroad street,	Main street, westerly,	Granite blocks on sand,	176	500
Randolph street,	Sumner avenue to Forest Park avenue,	Water-bound macadam,	916	3,053
Reed street,		Water-bound macadam,	660	2,493
Revere street,		Bituminous macadam,	1,278	4,459
Richelieu court,		Bituminous macadam,	446	1,403
Ridgewood place,		Water-bound macadam,	537	1,193
Ridgewood terrace,		Water-bound macadam,	886	1,643
Ringgold street,		Water-bound macadam,	730	2,432
Riverview street,		Water-bound macadam,	625	2,094
Riverview terrace,	Ft. Pleasant ave. to Riverview st., north driveway,	Water-bound macadam,	281	721
Riverview terrace,	Fort Pleasant avenue to Maplewood terrace,	Bituminous macadam,	545	3,336

TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds
Rochelle street,		Bituminous macadam,	856	2,858
Roseland street,		Bituminous macadam,	842	2,807
Rowland avenue,	Plainfield street to Fisk avenue,	Water-bound macadam,	690	1,674
Rutland street,		Tar top,	277	926
Rutledge avenue,		Water-bound macadam,	516	1,599
Salem street,	(See Mattoon street)			
Sargeant street,		Water-bound macadam,	860	3,126
School street,		Bituminous concrete,	1,422	4,799
Scott street,		Bituminous macadam,	673	2,355
Seventh street,		Water-bound macadam,	822	2,529
Sharon street,	Main to North,	Bituminous concrete,	917	2,855
Sharon street,	North to foot of hill,	Bituminous concrete,	334	1,253
Sharon street,	Foot of hill to Chestnut street,	Water-bound macadam,	212	393
Shattuck street,		Bituminous macadam,	1,121	3,707
Shefford street,	Springfield to Springfield, and Caseland,	Bituminous macadam,	1,594	5,313
Sheldon street,		Tar top,	643	2,016
Sherman street,		Water-bound macadam,	1,623	5,394
Silver street,		Bituminous macadam,	868	2,894
Sorrento street,		Bituminous macadam,	799	2,685
Springfield street,	Chestnut street to Atwater terrace and Hamburg street to Chicopee line,	Water-bound macadam,	——	*1,242
Springfield street,	Chestnut to Atwater Glen,	Tar top,	820	3,437
Springfield street,	Atwater Glen to top of hill,	Tar top,	1,042	5,726
Springfield street,	Russell's south line, to Shefford street,	Bituminous macadam,	369	1,972
Springfield street,	Shefford to Armory,	Bituminous concrete,	1,037	4,800
Springfield street,	Armory street intersection,	Bituminous macadam,	225	780
Springfield street,	Armory street to Chicopee line,	Water-bound macadam,	1,027	2,738
Spruce street,		Water-bound macadam,	699	1,737

TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Spruceland avenue,		Water-bound macadam,	1,370	4,566
Stafford street,		Bituminous macadam,	460	1,567
State street,	Chestnut street to City Library,	Granite blocks on sand,	197	542
State street,	Library to east line of Spring street,	Water-bound macadam,	930	4,110
State street,	North side, Library to School street,	Tar top,	——	1,958
Stearns square,	West of Park,	Sheet asphalt,	257	1,141
Stearns square,	East of Park,	Sheet asphalt,		
Stebbins street,		Water-bound macadam,	973	3,243
St. James avenue,	State street to 175′ west of Dartmouth street, and 175′ east of Princeton to N. Y., N. H. & H. R. R.,	Tar top,	3,146	15,348
St. James boulevard,	22′ wide in center of street,	Bituminous macadam,	2,579	6,659
Stockbridge street,	Willow to foot of hill,	Water-bound macadam,	318	499
Stratford terrace,		Bituminous macadam,	532	2,315
Summer street,	Spring street to 85′ west of Federal,	Granite blocks on sand,	2,613	8,176
Sumner avenue,	Longhill to Fort Pleasant avenue car tracks,	Bituminous macadam,	——	1,288
Sumner avenue,	Ft. Pleasant avenue to Oakland st., north track,	Bituminous macadam,	——	3,478
Sumner avenue,	Longhill street to Forest Park entrance,	Water-bound macadam,	3,219	10,784
Sumner avenue,	Beechwood to Forest Park avenue, south side,	Bituminous macadam,	——	3,155
Sumner avenue,	Forest Park entrance to Lenox street, north side,	Bituminous macadam,	1,700	4,236
Sumner avenue,	Forest Park entrance to Oakland street, south side,	Water-bound macadam,	393	895
Sumner avenue,	Lenox street to 90′ west of Ventura,	Bituminous concrete,	484	5,626
Sumner avenue,	90′ west of Ventura to Daviston street,	Bituminous macadam,	2,948	19,452
Sumner avenue,	Daviston to Allen street,	Water-bound macadam,	3,941	11,590
Sumner terrace,		Bituminous macadam,	427	2,268
Talcott avenue,		Bituminous macadam,	721	3,134
Taylor street,	Main to Dwight,	Bituminous concrete,	552	1,857
Temple street,		Sheet asphalt,	950	3,163
Tenth street,	Main to North,	Bituminous concrete,	908	2,574

TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Tenth street,	North street to foot of hill,	Bituminous concrete,	397	1,123
Tenth street,	Foot of hill to Chestnut,	Water-bound macadam,	212	601
Terrence street,		Water-bound macadam,	714	2,380
Thomas street,		Water-bound macadam,	583	1,945
Thompson street,	State to Bay,	Tar top,	786	2,582
Thompson street,	Bay to St. James avenue,	Tar top,	650	2,183
Thompson street,	Worthington to St. James avenue,	Water-bound macadam,	1,307	4,024
Tracy street,		Bituminous macadam,	425	1,363
Trafton road,		Asphalt penetration,	2,035	8,111
Tyler street,	Oak to Hancock,	Water-bound macadam,	1,346	4,002
Tyler street,	Hancock street to Eastern avenue,	Bituminous macadam,	1,343	4,326
Tyler street,	Eastern avenue to Colton street,	Bituminous macadam,	275	892
Union street,	Water street to N. Y., N. H. & H. R. R.,	Water-bound macadam,	414	1,702
Union street,	Water to Main,	Bituminous concrete,	935	3,049
Union street,	Willow to Dale street,	Sheet asphalt,	222	747
Union street,	Dale to foot of hill,	Water-bound macadam,	172	413
Union street,	Maple to School,	Bituminous concrete,	640	1,924
Union street,	School to Mulberry and Oak to Eastern avenue,	Water-bound macadam,	3,448	12,327
Union street,	Mulberry to Walnut,	Bituminous concrete,	859	3,006
Union street,	Walnut to Oak,	Bituminous concrete,	424	1,122
Union street,	Eastern avenue to Colton street,	Bituminous macadam,	291	894
Vassar street,		Bituminous macadam,	495	1,685
Ventura street,		Bituminous macadam,	804	2,680
Vine street,		Sheet asphalt,	703	1,797
Vinton street,		Water-bound macadam,	612	2,465
Wait street,		Bituminous macadam,	1,428	3 808
Walnut street,	Hickory street to top of hill,	Water-bound macadam,	440	1,961
Walter street,		Bituminous macadam,	390	1,300

TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Waltham avenue,		Tar top,	985	2,442
Warner street,		Water-bound macadam,	691	2,152
Warriner avenue,		Water-bound macadam,	450	1,601
Warwick street,	Heywood street, easterly,	Water-bound macadam,	811	2,703
Washburn street,		Water-bound macadam,	1,400	4,667
Washington road,	Maplewood terrace to Pineywoods avenue,	Water-bound macadam,	1,083	3,610
Washington road,	Pineywoods avenue to Washington boulevard,	Bituminous macadam,	508	1,693
Washington street,	Dickinson to Commonwealth avenue,	Bituminous macadam,	523	1,847
Wason avenue,	Main street to B. & M. R. R.,	Water-bound macadam,	505	1,718
Wason avenue,	Main street to B. & M. R. R.,	Water-bound macadam,	——	**449
Wason avenue,	B. & M. R. R. to Plainfield street,	Bituminous macadam,	1,321	4,370
Water street,	Hampden to Bridge,	Granite blocks on sand,	586	3,906
Water street,	Bridge to Elm street,	Bituminous macadam,	——	6,389
Water street,	Bridge to William street,	Tar top,	2,974	9,089
Water street,	William street to Whitney place,	Bituminous concrete,	530	3,761
Water street,	Whitney place to Gardner street,	Bituminous macadam,	725	4,054
Waverly street,		Water-bound macadam,	850	2,910
Webster street,		Water-bound macadam,	606	2,020
Wellesley street,		Water-bound macadam,	444	1,480
Wellington street,	Wilbraham road to Marlborough street,	Bituminous macadam,	825	2,750
West street,	Hampden park to North End bridge,	Bituminous concrete,	1,073	4,260
Westernview street,		Water-bound macadam,	650	2,167
Westford avenue,	Wilbraham road to Gunn square,	Water-bound macadam,	1,380	6,133
Westminster street,		Tar top,	1,875	6,429
White street,	Allen street to St. Railway turn-out and Orange street to Sumner avenue,	Tar top,	3,459	12,057
White street,	East and west sides of St. Railway turn-out,	Bituminous concrete,	956	1,763
White street,	Sumner avenue to Belmont avenue, 15′ wide,	Tar top,	2,100	4,200

TABLE OF SURFACE PAVEMENT.—CONTINUED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
White street,	Belmont avenue to Longmeadow line,	Bituminous concrete,	1,460	7,787
Whitney place,		Bituminous macadam,	455	1,202
Whittier avenue,		Bituminous macadam,	1,212	4,372
Wight place,		Water-bound macadam,	388	692
Wilbraham avenue,	Wilbraham road to King street,	Tar top,	2,086	6,994
Wilbraham avenue,	King to Alden,	Bituminous macadam,	1,182	3,940
Wilbraham road,	N. Y., N. H. & H. R. R. to Massachusetts ave.,	Bituminous concrete,	1,230	5,830
Wilbraham road,	Massachusetts avenue to Homer street,	Bituminous macadam,	610	2,554
Wilbraham road,	Homer to Benton street, north side,	Bituminous macadam,	2,604	5,293
Wilbraham road,	Homer to Benton street, south side,	Tar top,	——	6,478
Wilcox street,	Water street, westerly,	Tar top,	390	1,029
Wilcox street,	Water to Main,	Bituminous concrete,	928	3,062
Willard avenue,		Bituminous macadam,	766	2,328
William street,	Water street to N. Y., N. H. & H. R. R.,	Water-bound macadam,	466	1,381
William street,	Water to Main,	Bituminous concrete,	902	2,978
Willow st. extension,	Adams to Marble,	Bituminous macadam,	826	4,878
Winchester street,		Bituminous macadam,	378	1,252
Windsor street,		Bituminous macadam,	679	2,241
Winter street,		Tar top,	355	1,105
Winthrop street,		Water-bound macadam,	659	2,397
Wolcott street,		Bituminous macadam,	439	1,463
Woodside terrace,		Water-bound macadam,	937	3,123
Worcester avenue,		Bituminous macadam,	811	2,709
Worcester street, I. O.,	Pine street to Fiberloid Co.'s driveway, 18′ wide,	Water-bound macadam,	4,994	10,988
Worthington street,	Broadway to Main street,	Bituminous concrete,	404	1,418
Worthington street,	Spring street to Kibbe avenue,	Bituminous concrete,	1,513	5,059
Worthington street,	Kibbe avenue to Bowdoin street,	Water-bound macadam,	1,668	5,306
Worthington street,	Bowdoin to St. James avenue,	Bituminous concrete,	747	2,590

TABLE OF SURFACE PAVEMENT.—CONCLUDED.

Name.	Limits.	Material.	Length in feet.	Area in sq. yds.
Yale street,		Water-bound macadam,	1,493	5,142
York street,	Main street to Pecousic avenue,	Bituminous concrete,	407	1,085
York street,	Pecousic avenue to N. Y., N. H. & H. R. R.,	Water-bound macadam,	593	1,912

TABLE OF SURFACE PAVEMENT

RECAPITULATION.

	Miles.	Square yards.
Water-bound macadam,	37.32	674,196
Bituminous macadam,	33.05	654,115
Bituminous concrete,	13.32	254,976
Tar top,	12.37	243,742
Granite on sand,	1.83	34,007
Sheet asphalt,	1.92	32,108
Glutrin-bound macadam,	.70	8,942
Asphalt penetration,	.43	9,066
Grit asphalt,	.36	6,330
Rocmac,	.17	2,652
	101.47	
Gravel roads,	46.61	
Dirt roads,	7.95	

*Includes macadam laid by Springfield Street Railway Company.

**Macadam laid by Springfield Street Railway Company.

†Macadam laid by private parties.

STREET MAINTENANCE.

RESURFACING.

Street.	Limits.	Materials.	Length in feet.	Area in sq.yds.	Depreciation.	Indirect Cost.	Total Cost.	Cost per sq. yd.
Alden street,	Railroad to Woodbine avenue,	Tar top,	1,103	2,446	$11.43	$147.93	$1,627.22	$0.67
Allen street,	Brick paving to White,	Tar top,	444	1,439	6.67	62.00	682.04	.47
Andrew street,	State to Dawes,	Tar top,	1,290	4,273	16.18	147.25	1,619.72	.38
Auburn street,		Sheet asphalt,	782	1,996	18.99	236.53	2,601.75	1.30
Bay road,	Oak Grove cemetery to Boston road,	Gravel,	11,820	23,640	109.19	680.00	7,480.03	.32
Bay street,	Railroad to Cambridge,	Tar top,	335	1,117	8.00	48.95	538.43	.48
Cass street,	Liberty to Franklin,	Tar top,	623	1,937	10.31	102.97	1,132.67	.58
Cass street,	Franklin to Butler,	Sheet asphalt,	1,140	3,698	68.76	714.66	7,861.30	2.13
Central street,	Cedar to Mill,	Sheet asphalt,	2,929	10,044	127.39	1,540.49	16,945.39	1.69
Central street,	At Ashmun,	Tar top,	37	115	2.02	16.97	186.66	1.62
Central street,	Maple to top of hill,	Water-bound,	1,010	2,786	7.82	78.38	862.18	.31
Chestnut street,	Springfield to Eagle,	Tar top,	930	2,754	13.54	131.59	1,447.51	.53
Dale street,		Sheet asphalt,	828	2,159	34.76	398.35	4,381.88	2.03
Eagle street,	Chestnut to Main,	Tar top,	568	1,894	8.90	113.18	1,244.97	.66
Florida street,	St. James avenue to Ingersoll Grove,	Tar top,	1,653	5,087	21.12	186.20	2,048.20	.40
Gray's avenue,		Sheet asphalt,	568	1,325	20.14	215.54	2,370.95	1.79
Hubbard avenue,	Willow to Dale street,	Sheet asphalt,	190	359	4.06	52.04	572.42	1.59
Huntington street	Birnie avenue to Main,	Tar top,	642	2,018	6.60	89.33	982.58	.49
Linden street,	Cass to Chestnut,	Tar top,	1,285	5,139	19.46	210.16	2,311.69	.45
Lombard street,		Sheet asphalt,	590	1,670	54.52	455.07	5,005.67	3.00
Loring street,		Sheet asphalt,	717	2,311	17.29	322.80	3,550.75	1.54
Marble street,	Main to Dwight street extension,	Sheet asphalt,	581	1,949	19.39	276.55	3,042.03	1.56
Massasoit street,	Carew to Prospect,	Tar top,	845	2,881	10.78	126.23	1,388.60	.48

STREET MAINTENANCE.

RESURFACING—*Concluded.*

Street.	Limits.	Materials.	Length in feet.	Area in sq. yds.	Depreciation.	Indirect Cost.	Total Cost.	Cost per sq. yd.
Merwin street,...	Chestnut to Main,.....	Tar top,.....	701	2,335	$8.36	$110.58	$1,216.36	$0.52
North street,....	Jefferson avenue to Cumberland,.....	Sheet asphalt,..	1,655	6,078	118.93	988.05	10,868.50	1.79
Oakland street,..	Allen to top of hill,....	Tar top,.....	515	1,573	7.09	67.98	747.81	.48
Parker st., I. O.,.	Boston road to Allen,...	Gravel,.....	20,040	33,400	23.75	113.85	1,252.34	.04
Sheldon street,...	Birnie ave. to Main,...	Tar top,.....	643	2,016	9.24	99.23	1,091.50	.54
Springfield street,	Atwater terrace to top of hill,.....	Tar top,.....	1,042	5,726	50.71	365.60	4,021.67	.70
Stearns square,..	Both sides,.....	Sheet asphalt,..	257	1,141	22.72	201.22	2,213.45	1.94
Temple street,...	.....	Sheet asphalt,..	950	3,163	29.78	515.10	5,666.10	1.79
Thompson street,	Bay to St. James ave.,..	Tar top,.....	650	2,183	11.82	90.49	995.35	.46
Union street,....	Dale to Willow,.....	Sheet asphalt,..	222	747	9.63	117.73	1,295.02	1.73
Union street,....	Water to railroad,.....	Tar top,.....	414	1,716	7.05	57.79	635.71	.37
Vine street,.....	.....	Sheet asphalt,..	703	1,797	18.16	233.73	2,571.04	1.43
Waltham avenue,	Wilbraham road to Wilbraham avenue,.....	Tar top,.....	985	2,442	9.48	102.66	1,129.30	.46
Westminster street,.....	State to St. James avenue,.....	Tar top,.....	1,875	6,429	25.43	254.77	2,802.40	.44
White street,....	Belmont avenue to Sumner avenue,.....	Tar top,.....	2,100	4,200	24.82	228.48	2,513.30	.60
Wilbraham avenue,.....	Wilbraham road to King street,.....	Tar top,.....	2.086	6,994	19.00	188.57	2,074.27	.30
Wilcox street,....	Water to railroad,.....	Tar top,.....	390	1,029	4.82	38.74	426.18	.41
Winter street,....	.....	Tar top,.....	355	1,105	6.82	63.69	700.54	.63
Totals,.....	.....	.....	66,493	167,111	$1,024.93	$10,191.43	$112,105.48	

STREET MAINTENANCE.

RESURFACING RECAPITULATION.

	Length in feet.	Area in sq. yds.	Cost per sq. yd.	Cost.
Water-bound macadam,.....	1,010	2,786	$0.31	$862.18
Tar top,.....	21,511	68,848	.49	33,564.68
Sheet asphalt,.....	12,112	38,437	1.79	68,946.25
Gravel,.....	31,860	57,040	.15	8,732.37
Totals,.....	66,493	167,111	.....	$112,105.48

STREET MAINTENANCE

REPAIRS.

Street.	Gravel.	Surface Paving.	Permanent Paving.	Street Signs.	Fences.	Miscellaneous.	Total.
Abbe avenue,	.....	$118.06	.....	.....	.....	.....	$118.06
Adams street,	.....	58.33	.....	.....	.....	.....	58.33
Albany street,	.....	180.00	.....	.....	.....	.....	180.00
Allen street,	$6,953.98	.....	.....	.....	$472.23	.....	7,426.21
Armory street,	.....	.....	$203.98	.....	.....	.....	203.98
Ashley street,	.....	62.60	.....	.....	.....	.....	62.60
Atwater terrace,	.....	60.82	.....	.....	.....	.....	60.82
Auburn street,	.....	83.38	.....	.....	.....	.....	83.38
Bay street,	.....	65.76	26.51	.....	.....	.....	92.27
Bay road,	188.35	.....	.....	.....	.....	.....	188.35
Belmont avenue,	.....	163.58	240.53	.....	.....	.....	404.11
Berkshire avenue, I. O.,	1,092.98	302.15	.....	.....	127.45	$5.36	1,527.94
Berkshire street, I. O.,	5.45	.....	.....	.....	.....	.....	5.45
Biltmore street,	14.75	.....	.....	.....	.....	.....	14.75
Birnie avenue,	.....	59.38	.....	.....	.....	.....	59.38
Boston road,	652.93	.....	236.79	.....	.....	.....	889.72
Bridge street,	.....	33.78	36.34	.....	.....	.....	70.12
Bristol street,	21.52	.....	.....	.....	.....	.....	21.52
Broadway,	.....	52.00	.....	.....	.....	....	52.00
Burton street,	.....	.....	.....	.....	.....	48.58	48.58
Carew street,	664.69	.....	.....	.....	.....	.....	664.69
Cass street,	.....	178.35	.....	.....	.....	.....	178.35
Catharine street,	.....	.....	4.17	.....	.....	.....	4.17
Charles street,	.....	32.18	.....	.....	.....	.....	32.18
Charter avenue,	.....	.....	17.35	.....	.....	.....	17.35

STREET MAINTENANCE.

REPAIRS.—*Continued.*

Street.	Gravel.	Surface Paving.	Permanent Paving.	Street Signs.	Fences.	Miscellaneous.	Total.
Cherry street,	$201.08	.....	.....	.....	.....	.....	$201.08
Chestnut street,	.....	$331.92	.....	.....	.....	.....	331.92
Chicopee road,	29.43	.....	.....	.....	.....	.....	29.43
College street,	.....	81.40	.....	.....	.....	.....	81.40
Colonial avenue,	300.50	.....	.....	.....	.....	.....	300.50
Commonwealth avenue,	.....	.....	.....	.....	.....	$41.78	41.78
Coomes street,	.....	52.58	.....	.....	.....	.....	52.58
Cottage street,	32.14	.....	.....	.....	.....	.....	32.14
Court street,	.....	.....	$17.60	.....	.....	.....	17.60
Crane street,	.....	45.09	.....	.....	.....	.....	45.09
Cypress street,	.....	.....	156.52	.....	.....	.....	156.52
Denton circle,	.....	.....	.....	.....	.....	33.52	33.52
Dickinson street,	.....	14.07	.....	.....	.....	.....	14.07
Dwight street,	.....	.....	20.87	.....	.....	.....	20.87
Dwight road,	831.64	.....	.....	.....	.....	.....	831.64
Eastern avenue,	.....	375.54	.....	.....	.....	.....	375.54
Edgemont street,	.....	.....	.....	.....	.....	19.32	19.32
Eldredge street,	.....	.....	.....	.....	.....	20.27	20.27
Elliott street,	.....	30.38	.....	.....	.....	.....	30.38
Elm street,	.....	.....	5.24	.....	.....	.....	5.24
Essex street,	.....	26.04	.....	.....	.....	.....	26.04
Essex street, I. O.,	179.81	.....	.....	.....	.....	.....	179.81
Euclid avenue extension,	136.30	.....	.....	.....	.....	.....	136.30
Federal street,	.....	79.64	.....	.....	.....	.....	79.64
Forest avenue,	88.32	.....	.....	.....	.....	.....	88.32

STREET MAINTENANCE.

REPAIRS.—*Continued.*

Street.	Gravel.	Surface Paving.	Permanent Paving.	Street Signs.	Fences.	Miscellaneous.	Total.
Fort street,	.....	$53.27	.....	.....	.....	.....	$53.27
Franklin street,	.....	278.06	.....	.....	.....	.....	278.06
Fremont street,	.....	23.64	.....	.....	.....	.....	23.64
Garfield street,	.....	8.72	.....	.....	.....	.....	8.72
George street,	.....	82.21	.....	.....	.....	.....	82.21
Greenwood street,	.....	35.19	.....	.....	.....	.....	35.19
Hampden street,	.....	125.16	.....	.....	.....	.....	125.16
Hampshire street, I. O.,	$360.38	.....	.....	.....	.....	.....	360.38
Harrison avenue,	.....	.....	$45.01	.....	.....	.....	45.01
Harvey street,	62.15	.....	.....	.....	.....	.....	62.15
Hickory street,	410.59	60.50	.....	.....	.....	.....	471.09
Hillman street,	.....	106.17	.....	.....	.....	.....	106.17
Howard street,	.....	111.06	.....	.....	.....	.....	111.06
Ionia street,	.....	.....	.....	.....	.....	$23.67	23.67
Itendale street,	.....	.....	.....	.....	.....	28.56	28.56
Johnson street,	20.05	.....	.....	.....	.....	.....	20.05
Kimberly avenue,	.....	.....	.....	.....	.....	22.89	22.89
Laurel street,	.....	76.46	.....	.....	.....	.....	76.46
Leete street,	.....	879.78	.....	.....	.....	.....	879.78
Leonard street,	.....	40.69	.....	.....	.....	.....	40.69
Liberty street,	387.74	.....	686.68	.....	.....	.....	1,074.42
Locust street,	.....	.....	139.47	.....	.....	.....	139.47
Longfellow terrace,	.....	.....	.....	.....	.....	40.03	40.03
Lyman street,	.....	.....	121.86	.....	.....	.....	121.86
Magazine street,	.....	.....	301.19	.....	.....	.....	301.19

STREET MAINTENANCE.

REPAIRS.—*Continued.*

Street.	Gravel.	Surface Paving.	Permanent Paving.	Street Signs.	Fences.	Miscellaneous.	Total.
Main street,	.....	$527.84	$3,281.50	.....	.....	.....	$3,809.34
Main street, I. O.,	$42.37	13.22	85.32	.....	$87.65	.....	228.56
Maple street,	.....	72.53	.....	.....	.....	.....	72.53
Margaret street,	.....	24.60	.....	.....	.....	.....	24.60
Market street,	.....	77.82	.....	.....	.....	.....	77.82
Marlboro avenue,	.....	.....	.....	.....	.....	$53.31	53.31
Marshall street,	.....	98.23	.....	.....	.....	.....	98.23
Mill street,	.....	40.57	.....	.....	.....	.....	40.57
Miller street,	.....	.....	.....	.....	.....	40.04	40.04
Montpelier street,	.....	.....	.....	.....	.....	20.88	20.88
Moore street,	.....	128.47	.....	.....	.....	.....	128.47
Morningside Park,	12.51	.....	.....	.....	.....	.....	12.51
Myrtle street, I. O.,	138.94	.....	.....	.....	.....	.....	138.94
Niagara street,	.....	.....	.....	.....	.....	12.75	12.75
North street,	.....	.....	5.97	.....	.....	.....	5.97
North Main street,	.....	.....	353.21	.....	.....	.....	353.21
Oak street,	.....	118.20	.....	.....	.....	.....	118.20
Oak street, I. O.,	663,78	.....	.....	.....	.....	11.09	674.87
Oakland street,	.....	82.35	.....	.....	.....	.....	82.35
Old Bay road,	26.90	.....	.....	.....	.....	.....	26.90
Page boulevard,	225.69	336.69	.....	.....	.....	43.10	605.48
Parker street, I. O.,	1,216.72	.....	.....	.....	.....	.....	1,216.72
Pasco road, I. O.,	260.04	.....	.....	.....	43.65	.....	303.69
Patton street,	.....	15.66	.....	.....	.....	.....	15.66
Pearl street,	.....	10.22	.....	.....	.....	17.96	28.18

STREET MAINTENANCE.

REPAIRS.—*Continued.*

Street.	Gravel.	Surface Paving.	Permanent Paving.	Street Signs.	Fences.	Miscellaneous.	Total.
Pecousic avenue,	.....	$1,329.20	.....	.....	.....	.....	$1,329.20
Pine street,	.....	4.72	.....	.....	.....	.....	4.72
Plainfield street,	.....	.....	$268.94	.....	.....	.....	268.94
Plum Tree road,	$2,312.40	.....	.....	.....	.....	.....	2,312.40
Pynchon street,	.....	.....	33.93	.....	.....	.....	33.93
Rupert street,	.....	.....	.....	.....	.....	$37.86	37.86
Salem street,	.....	46.17	.....	.....	.....	.....	46.17
Sanford street,	.....	.....	12.28	.....	.....	.....	12.28
Saratoga street,	.....	.....	.....	.....	.....	121.13	121.13
Sharon street,	.....	35.97	.....	.....	.....	.....	35.97
Sixteen Acre road,	623.72	.....	.....	.....	.....	.....	623.72
Somerset street,	19.21	.....	.....	.....	.....	.....	19.21
Spring street,	.....	102.59	36.61	.....	.....	.....	139.20
State street,	.....	488.76	1,167.95	.....	.....	468.68	2,125.39
Stearns square,	.....	21.70	.....	.....	.....	.....	21.70
Sterling street,	.....	.....	.....	.....	.....	24.33	24.33
St. James avenue,	80.02	322.10	1,170.01	.....	.....	.....	1,572.13
St. James boulevard,	.....	619.45	.....	.....	.....	.....	619.45
Stony Hill road,	165.00	.....	.....	.....	.....	.....	165.00
Stratford terrace,	.....	.....	.....	.....	.....	48.42	48.42
Suffolk street,	.....	.....	.....	.....	.....	55.98	55.98
Summer street,	.....	.....	129.29	.....	.....	.....	129.29
Summit street,	.....	.....	.....	.....	.....	122.73	122.73
Sumner avenue,	.....	1,330.65	.....	.....	.....	.....	1,330.65
Sundry streets,	1,261.52	21,179.37	84.17	$2,612.04	$3,894.91	2,123.56	31,155.57

STREET MAINTENANCE.

REPAIRS.—*Concluded.*

Street.	Gravel.	Surface Paving.	Permanent Paving.	Street Signs.	Fences.	Miscellaneous.	Total.
Taylor street,	.....	$211.52	.....	.....	.....	.....	$211.52
Tenth street,	.....	23.89	.....	.....	.....	.....	23.89
Tinkham road,	$754.92	.....	.....	.....	.....	.....	754.92
Union street,	.....	26.99	.....	.....	.....	.....	26.99
Vine street,	.....	5.20	.....	.....	.....	.....	5.20
Virginia street,	19.40	.....	.....	.....	.....	.....	19.40
Walnut street,	.....	.....	$428.05	.....	.....	.....	428.05
Water street,	.....	1,229.94	88.42	.....	.....	.....	1,318.36
White street,	.....	2.37	.....	.....	.....	.....	2.37
Wigwam place,	.....	.....	.....	.....	.....	$38.27	38.27
Wilbraham road,	1,582.65	66.25	.....	.....	$85.20	.....	1,734.10
Wilcox street,	.....	26.98	.....	.....	.....	.....	26.98
William street,	.....	26.56	7.24	.....	.....	.....	33.80
Willow street,	.....	.....	28.75	.....	.....	.....	28.75
Wilmont street,	74.65	.....	.....	.....	.....	.....	74.65
Worcester street, I. O.,	1,050.30	279.24	.....	.....	26.86	.....	1,356.40
Worthington street,	.....	258.40	135.06	.....	.....	.....	393.46
Totals,	$23,165.52	$33,552.36	$9,576.81	$2,612.04	$4,737.95	$3,524.07	$77,168.75

GENERAL REPAIRS.

ASSESSABLE COST.

Street.	Surface Paving.	Permanent Paving.	Total Cost.
Abbe avenue,	$3.66	....	$3.66
Acushnet avenue,	29.62	....	29.62
Albemarle street,	10.00	....	10.00
Alden street,	71.50	....	71.50
Alexander street,	2.33	....	2.33
Allen street,	241.82	....	241.82
Amherst street,	4.54	....	4.54
Andrew street,	2.04	....	2.04
Arbor street,	1.89	....	1.89
Arch street,	2.07	....	2.07
Armory street,	471.65	$13.74	485.39
Ashley street,	5.74	....	5.74
Ashmun street,	1.61	....	1.61
Bancroft street,	12.38	....	12.38
Bay road,	96.89	....	96.89
Beaumont street,	11.94	....	11.94
Beech street,	65.58	....	65.58
Belmont avenue,	10.46	894.05	904.51
Benton street,	6.42	....	6.42
Berkeley street,	16.29	....	16.29
Birnie avenue,	22.04	....	22.04
Bloomfield street,	4.53	....	4.53
Bond street,	7.50	....	7.50
Bowles street,	12.94	....	12.94
Boylston street,	3.50	....	3.50
Broadway,	2.52	....	2.52
Brookline avenue,	3.52	....	3.52
Buckingham street,	5.87	....	5.87
Burlington street,	55.44	....	55.44
Burr street,	2.02	....	2.02
Cambridge street,	1.88	....	1.88
Carew street,	8.52	....	8.52
Caseland street,	2.19	....	2.19
Catharine street,	....	48.60	48.60
Chase avenue,	2.19	....	2.19
Chestnut street,	1,474.27	59.97	1,534.24
Churchill street,	9.93	....	9.93
Clarendon street,	52.78	....	52.78
Clifford street,	4.12	....	4.12
Clifton avenue,	2.10	....	2.10
Cliftwood street,	2.18	....	2.18
College street,	2.19	....	2.19
Colton street,	2.41	....	2.41
Commonwealth avenue,	50.15	....	50.15
Concord terrace,	2.79	....	2.79
Court street,	....	96.47	96.47
Crossett lane,	....	17.68	17.68
Crystal avenue,	6.22	....	6.22

GENERAL REPAIRS.

ASSESSABLE COST.—*Continued.*

Street.	Surface Paving.	Permanent Paving.	Total Cost.
Cypress street,	....	$82.22	$82.22
Dartmouth street,	$3.56	....	3.56
Dartmouth terrace,	2.33	....	2.33
Dawes street,	2.41	....	2.41
Demond avenue,	6.86	....	6.86
Dickinson street,	16.75	....	16.75
Dorchester street,	7.38	....	7.38
Douglas street,	4.83	....	4.83
Dunmoreland street,	151.95	....	151.95
Dwight street,	....	830.24	830.24
Eastern avenue,	211.66	....	211.66
Elmwood street	3.52	....	3.52
Emery street,	....	12.96	12.96
Essex street,	7.52	....	7.52
Euclid avenue,	18.63	....	18.63
Everett street,	2.20	....	2.20
Farnsworth street,	5.01	....	5.01
Federal street,	2.73	....	2.73
Firglade avenue,	13.48	....	13.48
Fisk avenue,	3.52	....	3.52
Florence street,	39.81	....	39.81
Florentine Gardens,	9.24	....	9.24
Florida street,	4.06	....	4.06
Forest street,	8.07	....	8.07
Forest Park avenue,	5.52	....	5.52
Fort street,	1.42	....	1.42
Fort Pleasant avenue,	2,678.60	....	2,678.60
Franklin street,	3.52	....	3.52
Fulton street,	....	28.26	28.26
Gardner street,	2.55	....	2.55
Genesee street,	119.31	....	119.31
Gordon street,	2.18	....	2.18
Granville street,	2.26	....	2.26
Greenleaf street,	5.24	....	5.24
Greenwich street,	2.88	....	2.88
Grove street,	6.23	....	6.23
Grover street,	2.20	....	2.20
Hall street,	6.52	....	6.52
Hancock street,	12.89	....	12.89
Harriet street,	30.27	....	30.27
Harrison avenue,	....	10.14	10.14
Harvard street,	18.25	....	18.25
Hawley street,	3.28	....	3.28
Hebron street,	2.20	....	2.20
Hickory street,	....	6.91	6.91
High street,	6.70	....	6.70
Hillman street,	....	11.35	11.35
Hollywood street,	210.90	....	210.90

GENERAL REPAIRS.

ASSESSABLE COST.—*Continued.*

Street.	Surface Paving.	Permanent Paving.	Total Cost.
Holyoke street,	$2.32	....	$2.32
Howard street,	3.18	....	3.18
Hyde avenue,	7.06	....	7.06
Ingersoll Grove,	5.96	....	5.96
James street,	2.05	....	2.05
Jasper street,	1.74	....	1.74
Jefferson avenue,	21.05	....	21.05
John street,	2.79	....	2.79
Keith street,	5.54	....	5.54
Kenwood Park,	8.76	....	8.76
King street,	17.28	$19.84	37.12
Knox street,	2.17	....	2.17
Ladd street,	2.24	....	2.24
Lebanon street,	29.95	....	29.95
Lexington avenue,	7.02	....	7.02
Liberty street	7.03	150.59	157.62
Locust street,	....	8.03	8.03
Longhill street,	10.52	....	10.52
Lyman street,	....	3.50	3.50
Madison avenue,	7.63	....	7.63
Magnolia terrace,	2.84	....	2.84
Main street,	5.75	2,486.99	2,492.74
Manhattan street,	1.74	....	1.74
Mapledell street,	7.81	....	7.81
Marengo Park,	6.12	....	6.12
Marion street,	3.97	....	3.97
Market street,	7.10	....	7.10
Maynard street,	2.15	....	2.15
McKnight street,	1.90	....	1.90
Middlesex street,	2.71	....	2.71
Mill street,	25.43	18.32	43.75
Monmouth street,	11.65	....	11.65
Monroe street,	2.29	....	2.29
Montrose street,	7.34	....	7.34
Morris street,	3.34	....	3.34
Murray Hill avenue,	6.98	....	6.98
Norfolk street,	2.39	....	2.39
North street,	8.41	....	8.41
Northampton avenue,	6.68	....	6.68
North Main street,	....	293.87	293.87
Norwood street,	3.50	....	3.50
Oak Grove avenue,	2.70	....	2.70
Olive street,	3.70	....	3.70
Orange street,	10.40	....	10.40
Orchard street,	2.23	....	2.23
Orleans street,	8.11	....	8.11
Page boulevard,	2.20	....	2.20
Palmer avenue,	35.30	....	35.30

GENERAL REPAIRS.

ASSESSABLE COST—*Continued.*

Street.	Surface Paving.	Permanent Paving.	Total Cost.
Park street,	$45.36	$8.78	$54.14
Parkwood street,	9.84	....	9.84
Pecousic avenue,	82.62	....	82.62
Pendleton avenue,	2.30	....	2.30
Phoenix street,	2.16	....	2.16
Pine street,	8.03	....	8.03
Pineywoods avenue,	5.76	....	5.76
Plainfield street,	....	46.49	46.49
Pleasant street,	39.17	....	39.17
Plymouth street,	2.20	....	2.20
Pomona street,	2.72	....	2.72
Princeton street,	24.68	....	24.68
Prospect street,	87.83	....	87.83
Queen street,	10.62	....	10.62
Quincy street,	18.13	....	18.13
Railroad street,	....	33.19	33.19
Reed street,	6.68	....	6.68
Revere street,	131.34	....	131.34
Riverview terrace,	2.04	....	2.04
Rutland street,	105.19	....	105.19
Sargeant street,	7.00	....	7.00
Scott street,	2.81	....	2.81
Seventh street,	3.50	....	3.50
Sherman street,	1.76	....	1.76
Silver street,	33.04	....	33.04
Spring street,	....	15.68	15.68
Spruce street,	1.84	....	1.84
Spruceland avenue,	9.44	....	9.44
Stafford street,	2.05	....	2.05
State street,	186.43	1,393.78	1,580.21
Stebbins street,	3.46	....	3.46
St. James avenue,	172.57	....	172.57
Stockbridge street,	....	11.87	11.87
Summer street,	....	45.04	45.04
Sumner avenue,	23.43	....	23.43
Talcott avenue,	2.88	....	2.88
Thomas street,	21.57	....	21.57
Thompson street,	6.81	....	6.81
Tyler street,	7.98	....	7.98
Union street,	7.80	....	7.80
Vassar street,	7.12	....	7.12
Ventura street,	10.03	....	10.03
Vinton street,	32.26	....	32.26
Walnut street,	1.86	80.87	82.73
Washburn street,	4.08	....	4.08
Washington road,	6.36	....	6.36
Washington street,	2.21	....	2.21
Wason avenue,	5.16	....	5.16

GENERAL REPAIRS.

ASSESSABLE COST.—*Concluded.*

Street.	Surface Paving.	Permanent Paving.	Total Cost.
Water street,	$44.90	$3.77	$48.67
Waverly street,	13.79	....	13.79
Webster street,	6.68	....	6.68
Wellington street,	12.82	....	12.82
Wellesley street,	1.91	....	1.91
Westernview street,	4.54	....	4.54
Westford avenue,	3.48	....	3.48
Westminster street,	4.75	....	4.75
White street,	10.14	41.17	51.31
Whitney place,	2.08	....	2.08
Wilbraham avenue,	2.39	....	2.39
Wilbraham road,	31.43	....	31.43
Wilcox street,	8.03	....	8.03
Willard avenue,	5.26	....	5.26
Willow street extension,	6.51	....	6.51
Winchester street,	1.74	....	1.74
Windsor street,	2.17	....	2.17
Winthrop street,	7.21	....	7.21
Woodside terrace,	11.27	....	11.27
Worcester avenue,	4.13	....	4.13
Worthington street,	4.65	34.42	39.07
York street,	1.89	....	1.89
Totals,	$8,131.59	$6,808.79	$14,940.38

SIDEWALKS AND CURBING.

CONSTRUCTION AND RECONSTRUCTION.

BY ORDER OF THE CITY COUNCIL.

Street.	Sidewalks.		Length in feet.	Curbing. Length in feet.		Order Approved.
	Material.	Description.		4″	6″	
Albemarle avenue,	Concrete,	New,	170	.....	.....	Oct. 1, 1917.
Bartlett street (Prospect to Carew),	Concrete,	New,	304	.....	.....	Nov. 14, 1916.
Beaumont street (Belmont avenue to Dickinson),	Concrete,	New,	200	.....	.....	Oct. 1, 1917.
Belmont avenue (Sumner avenue to White street),	Concrete,	New,	402	.....	.....	Nov. 16, 1915.
*Berkshire avenue (State street to Bay street),	.....	.....	.....	2,523	.....	July 17, 1917.
Bond street (Main to Chestnut),	Concrete,	New,	406	.....	.....	June 27, 1916.
	Brick,	Repaired,	100	.....	.....	June 27, 1916.
Boylston street (Cypress to Emery),	Brick,	Relaying,	694	.....	.....	June 4, 1917.
Butler street,	Brick,	Repaired,	574	.....	.....	Sept. 12, 1916.
Carew street (Chicopee road and extension to Alvin street),	Concrete,	New,	486	.....	.....	May 12, 1919.
Charles street,	Brick,	Repaired,	208	.....	.....	Nov. 14, 1916.
Clinton street,	Brick,	Relaying,	206	.....	.....	Sept. 13, 1916.
Colton street,	Brick,	Relaying,	555	.....	.....	June 25, 1917.
	Concrete,	New,	154	.....	.....	June 25, 1917.
Dickinson street (Sumner avenue to Trafton road),	Concrete,	New,	176	.....	.....	June 4, 1918.
†Dunmoreland street (Westford circle to King street),	.....	.....	.....	1,080	.....	June 11, 1917.
Dwight street (east side, at Maroney's),	Concrete,	New,	34	.....	.....	Nov. 18, 1918.
Euclid avenue (Dickinson street to Belmont avenue),	Brick,	Repaired,	50	.....	.....	July 2, 1917.

SIDEWALKS AND CURBING.

CONSTRUCTION AND RECONSTRUCTION.

BY ORDER OF THE CITY COUNCIL.—*Continued.*

Street.	Sidewalks.		Length in feet.	Curbing. Length in feet.		Order Approved.
	Material.	Description.		4″	6″	
Farnsworth street (Extension to Chicopee line),	Concrete,	New,	1,300	.....	.....	Oct. 26, 1916.
Fort Pleasant avenue (Mill street to Sumner avenue),	Brick,	Repaired,	1,000	.....	.....	Sept. 13, 1916.
Franklin street (Main to Chestnut),	Brick,	Repaired,	498	.....	.....	July 2, 1917.
Gray's avenue,	Concrete,	New,	82	.....	.....	June 4, 1917.
Harrison avenue (S. E. corner Dwight street),	Concrete,	New,	22	.....	.....	Nov. 18, 1918.
Herman street (Sumner avenue to Vermont),	.....	.....	.....	898	.....	Aug. 21, 1917.
Howard street (Water to railroad),	Brick,	Repaired,	555	.....	.....	Nov. 14, 1916.
Kendall street,	.....	.....	.....	1,720	.....	July 17, 1917. July 20, 1919.
Knox street,	Concrete,	New,	206	.....	.....	Sept. 6, 1916.
Liberty street (Armory to Carew),	Concrete,	New,	1,280	.....	.....	Oct. 1, 1917.
Main street (Ferry to Carew),	Concrete,	New,	1,370	.....	.....	June 14, 1916.
Margaret street (No. 93),	Brick,	Relaying,	50	.....	.....	Nov. 14, 1916.
North street (Waverly to Harriet),	.....	.....	.....	212	.....	Sept. 30, 1918.
Patton street (Main to Chestnut),	Concrete,	New,	714	.....	.....	June 20, 1916.
Prescott street,	Concrete,	New,	145	.....	.....	Oct. 9, 1917.
Sandford street (N. W. corner of Dwight),	Concrete,	New,	10	.....	.....	Nov. 13, 1918.
Smith street (Maple to Knox),	Concrete,	New,	226	.....	.....	Sept. 6, 1916.
†Springfield street (Chestnut to Atwater road),	Concrete,	New,	297	.....	592	Dec. 12, 1916.
Stafford street,	Concrete,	New,	898	.....	.....	June 6, 1916.

SIDEWALKS AND CURBING.

CONSTRUCTION AND RECONSTRUCTION.

BY ORDER OF THE CITY COUNCIL.—*Concluded.*

Street.	Sidewalks.		Length in feet.	Curbing. Length in feet.		Order Approved.
	Material.	Description.		4″	6″	
Stearns square,	Concrete,	New,	60			May 10, 1919.
	Concrete,	Repairs,	200			
Stockbridge street (Willow to Maple),				23		July 9, 1917.
†Sumner avenue (N. E. track to H. S. Ripley land),				220		May 28, 1917.
†Sumner avenue (Daviston street to Eddywood),				3,362		Sept. 9, 1918.
Tenth street (Main to Chestnut),	Concrete,	New,	94			Dec. 12, 1916.
Terrence street,	Brick,	Repaired,	650			Oct. 1, 1917.
Union street (Water to railroad),	Brick,	Repaired,	330			Nov. 14, 1916.
Union street (Oak to Hancock),	Brick,	Repaired,	1,384			Sept. 17, 1917.
Washington street (Dickinson to Commonwealth avenue),	Concrete,	New,	310			Nov. 9, 1915.
Waverly street (North Main to Chestnut),	Concrete,	New,	141			June 4, 1918.
Webster street (Liberty to Franklin),	Brick,	Repaired,	350			Sept. 12, 1916.
Wilcox street (Water to railroad),	Brick,	Repaired,	50			Nov. 14, 1916.
William street (Water to railroad),	Brick,	Repaired,	367			Nov. 14, 1916.
Windsor street (south side, corner Knox),	Concrete,	New,	45			Sept. 9, 1918.
Totals,			17,353	10,038	592	

*Completion of 1917 work. †Completion of 1918 work.

REPORT

OF THE

SEWER DIVISION

FOR THE FISCAL YEAR ENDING NOVEMBER 30, 1919.

Mr. Robert P. Marsh, Superintendent of Streets and Engineering.

DEAR SIR:—I herewith submit a description of the work done by the Sewer Division, Department of Streets and Engineering, during the year ending November 30, 1919.

GENERAL DESCRIPTIONS.

The total expenditures for new sewer construction and reconstruction during the year amounted to $60,280.76. Deducting the cost of sewers abandoned, amounting to $1,797.75, leaves $58,483.01 to be added to the value of the sewer system as of November 30, 1918.

The total value of the system on November 30, 1919 was accordingly $1,936,531.86, and embraced a total of 153.46 miles of sewers in the care of this department.

The amount expended in repairs to the system was $11,678.91; cleaning, $4,970.47; and in flushing the same, $4,449.75. As usual all sewer construction during the year has been done directly by this division.

The receipts from entrance fees, exclusive of the fees on account of building private drains, amount to $13,391.41, and the number of connections made to buildings during the year was 215, an increase of 128 over last year. This number, while over 50 per cent below the average for the last ten years, shows the increased building activity over last year, a large portion of these connections being made during the last three months.

The length of concrete trunk sewers laid during the year was 1,991 feet and clay pipe sewers, 8,325 feet.

The amount of new construction work accomplished this year was limited solely by the amount of labor available and while some proposed

work was not carried out, we have been able to make a start on the storm-water system to drain that section of the city lying between State and Bay streets, east of the N. Y., N. H. & H. R. R. to Carlisle brook, as planned and recommended by Messrs. Metcalf and Eddy, Consulting Engineers. The necessary authority for this work was granted about August 1, and a start was at once made at Carlisle brook and work has progressed up to the present time with all the forces available, and will continue as long as weather permits.

The amount of work accomplished to date is 1,150 feet of open ditch, 1.074 feet of 4′ 6″ circular concrete sewer, and 3,650 feet of clay pipe sewer 12″ to 20″ in size.

All necessary maintenance work has been done as needed. Repairs, cleaning, and flushing have been carried on as demand required to keep the system up to the usual standard. The system, now 154 miles in length, some of it old and of uncertain condition, requires constant care and labor to keep the same in good working condition at all times. There are some twenty miles of old cement pipe still in commission, and while the policy has been pursued for a number of years of relaying these sewers with modern materials whenever weakness has developed, breaks occasionally occur although much less frequently than in former years.

There have been very few complaints of storm water backing into buildings during the last year, but a return of storms similar to those of the summer of 1917 would undoubtedly cause trouble. Considerable progress has been made in that section of the city east of the Highland Division of the N. Y., N. H. & H. R. R. to overcome this trouble there, and if a completion of the work now in progress can be made in the early season next year, one section of the city will have received permanent relief.

It is expected that the Engineering Division will soon be in possession of detailed report and plans from Messrs. Metcalf and Eddy covering other sections of the city that require relief from flooding by storm water.

It gives me pleasure to acknowledge the hearty co-operation of the engineers and foremen of this division and to thank you for the support and courtesies at all times received from you.

Respectfully submitted,

HOWARD O. BUCK,
Deputy Superintendent of Sewer Division.

SEWER CONSTRUCTION AND RECONSTRUCTION.

DESCRIPTION AND COSTS—FISCAL YEAR 1919.

Location.	Material.	Length in feet.	Size.	Total Cost.
Bradford street, Fulton to Plainfield street, relaying,	Clay	758	12″	$3,246.59
*Carlisle brook, building open ditch, Wilbraham road to State street,		1150		2,454.69
Carlton street, extension westerly,	Clay	102	10″	163.27
Caseland street, Shefford to Armory street, relaying, completion,				245.02
*College street, Shattuck street northerly, stormwater, incomplete,	Clay	300 500	18″ 15″	1,956.34
*College street, Shattuck to State street, stormwater, incomplete,	Clay	50	20″	245.12
*Cortland street, Shattuck street southerly, stormwater,	Clay	304 346	15″ 12″	1,671.52
Division street, extension westerly,	Clay	110	15″	191.13
Fountain place, Sylvan to Woodlawn street,	Clay	299	10″	525.63
Fulton street, Sargeant to Bradford street, relaying,	Clay	254	18″	1,700.43
Hawthorne street, Hancock to Spruce street, relaying,	Clay	492	12″	1,520.13
*Maynard street, Shattuck street southerly, stormwater, incomplete,	Clay	581	18″	2,181.95
Meredith street, Belmont avenue to Washington street,	Clay	536 274	12″ 10″	2,162.60
Parker street, I. O., extension southerly,	Clay	660	24″	3,970.80
Private land, Butler street, southerly,	Clay	296	15″	978.39
Rimmon avenue, extension to Chicopee line,	Clay	170	8″	132.97
*Shattuck street, Carlisle brook to College street, stormwater,	Con.	1074	4′6″ cir.	19,833.35
*Shattuck street, Willard avenue easterly, sanitary, relaying,	Clay	212	8″	....
*Shattuck street, Maynard street easterly, sanitary, relaying,	Clay	126 164	10″ 8″	....
*Shattuck street, College street easterly, sanitary,	Clay	96	8″	....
South street, I. O., extension easterly,	Clay	271	12″	487.45
Sterling street, Armory to Hamburg street,	Con.	917	2′10x4′3 Elliptical	14,176.97
Trafton road, Somerset street to Forest Park,	Clay	518	10″	984.67
Villa parkway, extension southerly,	Clay	453	10″	515.02
*Willard avenue, Shattuck street southerly, stormwater, relaying,	Clay	389	12″	880.18
Woodside terrace, extension easterly to to Belmont avenue,	Clay	64	6″	31.44
Total sewer construction, 1919,				$60,255.66

*Cost covered by bond issue. (See recapitulation of Capital Accounts.)

NOTE:—The costs of the above-described sewers include the costs of man holes, wellholes, and flush gates.

CONSTRUCTION—MANHOLES.

Location.	Total Cost.	Unit Cost.
Beaumont street,	$71.64	....
Berkshire street, I. O.,	79.56	....
Central street (two),	97.84	$48.92
Commonwealth avenue,	133.11	....
Cypress street,	37.88	....
Holyoke street,	7.82	....
Kensington avenue,	22.57	....
Linden street,	157.38	....
Seventh street,	12.29	....
Whitney avenue,	14.08	....
Worthington street,	81.28	....
Total,	$715.45	

CONSTRUCTION—WELLHOLES.

Location.	Total Cost.	Unit Cost.
Andrew street (two),	$61.23	$30.62
Central street (seven),	244.52	34.93
Crossett avenue (two),	103.33	51.67
Dale street,	38.31	....
Herman street (two),	54.93	27.47
Main street,	36.99	....
Malden street (two),	50.82	25.41
North street (four),	122.46	30.62
Nursery street,	65.67	....
Stratford terrace,	31.03	....
Sunapee street,	39.27	....
Trafton road (five),	178.51	35.70
Waltham avenue (five),	154.91	30.98
Westminster street (three),	86.13	28.71
Wilbraham road,	47.25	....
Winter street,	33.09	....
Worcester street, I. O.,	96.17	....
Total,	$1,444.62	

CONSTRUCTION—FLUSH GATES.

Location.	Total Cost.	Unit Cost.
Dwight street extension,	$63.12	....
Hollywood street,	50.63	....
Kensington avenue,	53.43	....
Saratoga street,	66.20	....
Sorrento street,	50.84	....
Vermont street,	35.50	....
Total,	$319.72	

SEWER CONSTRUCTION CLASSIFIED.

VITRIFIED CLAY PIPE.

Sizes.	Length in Feet.		Total Length.
	New Construction.	Reconstruction.	
6″	64	...	64′
8″	268	374	642′
10″	1,646	126	1,772′
12″	1,378	1,414	2,792′
15″	1,210	...	1,210′
18″	881	254	1,135′
20″	50	...	50′
24″	660	...	660′
Total,	6,157	2,168	8,325′

CONCRETE.

Sizes.	Length in Feet.		Total Length.
	New Construction.	Reconstruction.	
2′-10″ x 4′-3″ elliptical,	917		917′
4′-6″ circular,	1,074		1,074′
Total,	1,991		1,991′

ABANDONED SEWERS—1919.

Location.	Material.	Length in feet.	Size.	Total Cost.
Bradford street, Fulton to Plainfield,....	Cem.	758	12″	$758.00
Fulton street, Sargeant to Bradford,....	Cem.	254	15″	558.80
Hawthorne street, Hancock to Spruce,..	Cem.	441	12″	480.95
Shattuck street, Willard avenue easterly,	Clay	210	8″	....
Shattuck street, Maynard street to Willard avenue,.....	Clay	200 143	10″ 8″	....
Willard avenue, Shattuck street southerly,.....	Clay	215	8″	....
Total,.....		2,221		$1,797.75

SUMMARY.

Description.	Length in feet.	Cost.
Clay pipe sewers built by regular appropriation,..	5,257	$16,610.52
Clay pipe sewers built by special appropriation,....	3,068	6,935.11
Concrete sewers built by regular appropriation,....	917	14,421.99
Concrete sewers built by special appropriation,....	1,074	19,833.35
Flush gates, manholes, and wellholes built by regular appropriation and added to cost of sewer system,.....	.....	2,479.79
	10,316	$60,280.76
Sewers abandoned,.....	2,221	1,797.75
	8,095	$58,483.01
Changes in length not previously reported,.....	21	
	8,116	$58,483.01

SEWER CLEANING AND REPAIRS.

	COST OF	
	Cleaning.	Repairs.
Adams street,	.....	$63.14
Alden street,	.....	9.41
Alfred street,	.....	4.30
Allen street,	$119.59	35.67
Amherst street,	.....	138.30
Andrew street,	19.78	42.42
Arch street,	.....	30.64
Armory street,	.....	23.84
Atwater terrace,	.....	2.77
Auburn street,	.....	113.10
Autumn street,	.....	10.78
Bay street,	.....	18.21
Beaumont street,	24.82	.....
Belmont avenue,	.....	17.17
Benton street,	.....	4.99
Berkeley street,	28.66	.....
Berkshire street, I. O.,	11.92	4.73
Birnie avenue,	.....	56.10
Blake Hill,	.....	10.18
Bond street,	227.98	6.00
Bowles street,	.....	57.28
Bradford street,	.....	53.97
Brookline avenue,	44.39	.....
Buckingham street,	.....	38.97
Burton street,	.....	20.61
Butler street,	104.06	7.48
Calhoun street,	.....	10.19
Cambridge street,	81.20	.....
Carew street,	56.58	12.11
Cass street,	.....	24.31
Caseland street,	.....	46.46
Catharine street,	.....	14.03
Central street,	3.15	196.46
Charter avenue,	32.67	.....
Chestnut street,	.....	152.21
Clarendon street,	.....	84.76
Cleveland street,	43.22	.....
Clifford street,	23.01	.....
Cliftwood street,	18.85	.....
College street,	65.84	18.36
Colonial avenue,	.....	31.96
Colton street,	37.95	22.11
Congress street,	.....	54.72
Continental street,	73.53	.....
Cornell street,	18.15	.....
Court street,	.....	24.92
Crystal avenue,	19.01	.....
Cypress street,	.....	64.51
Dale street,	.....	99.03

SEWER CLEANING AND REPAIRS.—*Continued.*

	COST OF	
	Cleaning.	Repairs.
Dartmouth street,	.....	$14.30
Dawes street,	$41.97	.....
Daviston street,	.....	13.41
Dexter street,	.....	10.63
Dickinson street,	89.88	214.06
Dorchester street,	.....	18.39
Dunmoreland street,	.....	14.86
Demond avenue,	.....	8.56
Eagle street,	.....	94.07
Eastern avenue,	38.80	11.96
Essex street, I. O.,	.....	3.63
Everett street,	.....	72.24
Euclid avenue,	55.02	13.35
Ferry street,	.....	7.16
Firglade avenue,	30.14	.....
Fisk avenue,	58.61	.....
Florida street,	.....	68.54
Forest Park avenue,	25.39	.....
Forest street,	43.43	.....
Fort Pleasant avenue,	.....	58.08
Franklin street,	.....	18.51
Frost street,	.....	21.70
Fulton street,	.....	43.10
Garden brook,	485.45	4,557.81
Garfield street,	76.41	3.98
George street,	.....	5.10
Girard avenue,	17.71	62.71
Grace street,	.....	16.73
Grand street,	37.79	1.76
Gray's avenue,	.....	97.62
Greenleaf street,	47.32	.....
Greenwood street,	40.25	.....
Hampshire street, I. O.,	86.50	.....
Hancock street,	40.19	1.74
Harriet street,	.....	4.37
Harvard street,	.....	146.97
Hawthorne street,	.....	18.01
Hayden street,	44.70	.....
Hickory street,	.....	1.76
High street,	.....	15.37
Hillman street,	.....	62.14
Hubbard avenue,	.....	14.62
Huntington street,	.....	3.52
Irvington street,	57.68	.....
Jenks street,	.....	6.01
Johnson street,	84.43	.....
Kenwood Park,	113.21	27.56
Kimberly avenue,	.....	35.02
Knox street,	.....	7.43
Ladd street,	.....	2.46

SEWER CLEANING AND REPAIRS.—*Continued.*

	COST OF	
	Cleaning.	Repairs.
Lafayette street,	.....	$18.38
Lebanon street,	.....	.98
Lester street,	.....	14.96
Lexington avenue,	$21.70	.....
Liberty street,	.....	152.82
Linden street,	.....	148.37
Locust street,	.....	13.31
Logan street,	.....	14.75
Lombard street,	.....	71.54
Longhill street,	.....	3.52
Loring street,	.....	84.41
Lyman street,	.....	23.96
Lyons street, I. O.,	16.33	.....
Madison avenue,	.....	18.87
Magazine street,	.....	2.52
Magnolia terrace,	41.81	14.27
Main street,	457.93	337.46
Main street, I. O.,	25.04	67.80
Malden street,	.....	12.50
Manhattan street,	.....	4.84
Manitoba street,	.....	46.75
Maple street,	.....	10.31
Mapledell street,	3.01	.....
Maplewood terrace,	35.69	6.41
Marble street,	.....	61.22
Marengo Park,	54.22	.....
Marion street,	34.21	4.93
Marlborough street,	.....	13.45
Massasoit street,	.....	37.13
Maynard street,	2.99	23.86
McKnight street,	.....	82.99
Medford street,	.....	17.30
Melrose street,	.....	84.21
Merwin street,	.....	46.27
Mill street,	.....	7.40
Monmouth street,	50.24	.....
Monroe street,	131.88	4.80
Montrose street,	95.66	34.85
Murray Hill avenue,	.....	1.76
Noel avenue,	.....	30.76
North street,	14.54	22.06
Northampton avenue,	32.01	.....
North Main street,	19.52	70.87
Norwood street,	.....	5.16
Nursery street,	.....	56.03
Oak street, I. O.,	.....	7.99
Oak Grove Park,	.....	7.29
Olive street,	44.80	.....
Orange street,	20.74	7.15

SEWER CLEANING AND REPAIRS.—*Continued.*

	COST OF	
	Cleaning.	Repairs.
Osgood street,	.....	$50.42
Ozark street,	$39.32	.....
Palmer avenue,	.....	40.47
Park street,	.....	17.55
Patton street,	45.54	10.18
Pearl street,	.....	19.85
Pendleton avenue,	44.17	19.98
Pine street, I. O.,	16.54	.....
Pineywoods avenue,	12.53	.....
Plainfield street,	.....	2.78
Plymouth street,	.....	7.79
Princeton street,	33.73	.....
Pynchon street,	.....	11.94
Quincy street,	.....	4.53
Rapalus avenue, I. O.,	.....	5.75
Revere street,	84.87	7.15
Richelieu court,	.....	23.04
Rimmon avenue,	.....	2.90
Rittenhouse terrace,	.....	15.70
Rutledge avenue,	.....	3.05
Sargeant street,	.....	36.54
Searle place,	.....	1.23
Sharon street,	48.46	52.53
Shattuck street,	55.25	.....
Sheldon street,	.....	29.48
Sherman street,	.....	54.30
Springfield street,	.....	12.52
Spruce street,	16.54	.....
Spruceland avenue,	.....	1.76
State street,	78.85	535.44
Sterns terrace,	.....	5.80
St. James avenue,	.....	2.31
Suffolk street,	.....	10.19
Summer street,	.....	167.25
Sumner avenue,	.....	40.31
Sundry streets,	251.61	.....
Sycamore street,	19.89	.....
Talcott avenue,	.....	10.33
Temple street,	.....	150.36
Terrence street,	.....	30.76
Thompson street,	71.74	85.67
Trafton road,	.....	11.96
Trinity terrace,	.....	10.19
Tyler street,	.....	11.23
Union street,	8.23	24.71
Vassar street,	.....	3.98
Vine street,	45.21	34.88
Vinton street,	.....	3.76
Virginia street,	.....	3.10

SEWER CLEANING AND REPAIRS.—*Concluded.*

	COST OF	
	Cleaning.	Repairs.
Walnut street,	$195.35	$33.10
Waltham avenue,	.....	13.09
Wareham street,	.....	1.76
Warwick avenue,	.....	2.86
Washington road,	21.44	.....
Water street,	.....	70.28
Webster street,	.....	40.66
Wellesley street,	.....	70.09
Wellington street,	96.38	20.79
West Alvord street,	.....	1.49
Westford avenue,	.....	4.94
Westminster street,	.....	180.10
White street,	.....	50.42
Wigwam place,	...	1.78
Wilbraham avenue,	.....	9.58
Wilbraham road,	41.18	37.30
Wilcox street,	.....	18.23
Willard avenue,	49.98	7.05
William street,	.....	39.70
Wolcott street,	.....	13.94
Worcester street, I. O.,	22.10	34.61
Worthington street,	.....	328.30
York street,	.....	3.52
Totals,	$4,970.47	$11,678.91

CITY OF SPRINGFIELD,

SEWER SYSTEM TABULATED TO DECEMBER 1, 1919.

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Abbe ave., Fisk ave., westerly	301	15″	Clay	$520.45	
	275	12″	Clay		
	300	18″	Clay		
Plainfield st., westerly	300	15″	Clay	1,446.64	
	301	12″	Clay		
	200	10″	Clay		
					$1,967.09
*Acorn st., Sycamore to Edgewood st	276	10″	Clay		176.64
Acushnet ave., Main st., easterly	294	20″	Clay		
	279	18″	Clay		298.94
	271	15″	Clay		
	26	12″	Clay		
Adams st., Main to Ashmun st	294	20″	Clay		
	245	18″	Clay	3,322.93	
	323	15″	Clay		
	221	12″	Clay		
Richelieu st., westerly	237	12″	Clay	304.12	
					3,627.05
Albany st., Armory st., easterly	1,083	5′-0″ cir.	Con.		
	478	4′-3″ cir.	Con.		19,645.30
	445	3′-9″ cir.	Con.		
Albemarle st., Wilbraham road, southerly	300	15″	Clay		
	314	12″	Clay	1,098.28	
	421	10″	Clay		
*Westford circle, northerly	564	10″	Clay	499.51	
*Gunn Square brook to Westford circle	329	12″	Clay	333.56	
*Gunn Square brook to King st	259	10″	Clay	268.14	
†From sewer across private land northerly to Westford circle	295	3′-0″ cir.	Con.	3,477.08	
					5,676.57
Alden st., Hancock st. to Eastern ave	595	18″	Cem.	1,861.38	
	820	15″	Cem.		
Eastern ave. to Wilbraham ave	895	15″	Clay	995.10	
Wilbraham ave. to Hickory st	499	10″	Clay	332.22	
					3,188.70
Alderman st., Dickinson to Scott st	296	18″	Clay		
	304	15″	Clay		1,269.59
	300	12″	Clay		
	443	10″	Clay		

*Sanitary sewers. †Storm water.

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Alexander st., North st., easterly	288	10″	Clay		$188.48
Alfred st., Birnie ave., easterly	377	10″	Clay		75.96
Allen ave., Allen st., easterly	338	10″	Clay		232.73
Allen st., Mill river to Oakland st.	216	24″	Clay	$576.86	
Mill to Oakland st.	365	10″	Clay	447.19	
Oakland st. to Plumtree road	686	24″	Clay	1,832.06	
	383	18″	Clay		
	474	15″	Clay	1,782.09	
	580	12″	Clay		
	1,603	12″	Clay	1,024.18	
	1,401	10″	Clay	1,132.05	
					6,794.43
Allendale st., North st., easterly	272	12″	Clay		401.43
	340	10″	Clay		
Amaron st., State st., southerly	349	10″	Clay		238.78
Amherst st., Harvard st., northerly	441	12″	Cem.	146.99	
	25	10″	Clay	23.78	
Princeton to Monmouth st.	512	12″	Clay	695.88	
	191	10″	Clay		
					866.65
Andrew st., State st., northerly	463	20″	Clay		1,919.98
	422	18″	Clay		
	382	12″	Clay		
Applewood place, Belmont ave., northerly	469	10″	Clay		391.81
Arbor st., Butler to Carew st.	398	12″	Clay		318.05
Arch st. (see Garden brook)					
*Ardmore st., Page boulevard to Bowles park	1,486	10″	Clay		1,636.18
Armory hill sewer (see private ways).					
Armory st., Worthington st., southerly	570	15″	Cem.	754.98	
	199	12″	Clay	495.91	
Summer st., southerly	374	12″	Clay	384.78	
	325	10″	Clay	193.87	
B.& A.R.R. to Liberty st.	690	15″	Clay		
	360	12″	Clay	1,187.41	
	271	10″	Clay		
Liberty to Sullivan st.	450	1′-10″x2′-9″	Brick	2,439.42	
	476	1′- 8″x2′-6″	Brick		

* Sanitary sewer.

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Sullivan to Carew st.....	156	24″	Clay		
	267	20″	Clay	$1,051.29	
	290	12″	Clay		
Carew st., northerly.....	452	20″	Clay		
	803	10″	Clay	1,255.27	
Springfield st., southerly..	31	20″	Clay		
	146	18″	Clay	358.92	
					$8,121.85
Ashley st., Cedar st., easterly.....	65	18″	Cem.	80.45	
	580	15″	Cem.		
	697	12″	Cem.	1,555.00	
					1,635.45
Ashmont st., Belmont ave., northeasterly.....	250	12″	Clay		
	200	10″	Clay		351.57
Ashmun st., Adams st., southerly.....	176	10″	Clay		350.48
Athol st., Milford st. to Chicopee line.....	600	15″	Clay		
	310	12″	Clay		1,300.71
Atwater terrace, Springfield st., northerly.....	1,020	18″	Clay		1,469.45
Atwater road, Greene lane, westerly.....	322	20″	Clay		
	199	18″	Clay		....
Auburn st., Fulton st., easterly.....	397	12″	Clay		
	335	10″	Clay		772.02
Austin st., State st., northerly.....	363	10″	Clay		334.91
Autumn st., Summer to Worthington st.....	239	15″	Clay		715.29
Avon place, Maple st., easterly.....	695	24″	Clay		3,451.49
Banbury st., Stockman st., southerly.....	234	10″	Clay		188.81
Bancroft st., Garden brook to Chestnut st.....	1,361	3′-4″x5′-0″	Brick		
including Chestnut st., Bancroft to Montmorenci st.....	379	3′-2″x4′-9″	Brick		8,914.04
Montmorenci st., Chestnut st., easterly.....	43	3′-2″x4′-9″	Brick		
Banks place, Water st., westerly.....	235	10″	Clay		791.96
Bartlett st., Massasoit place, northerly.....	235	10″	Clay		342.03
Baxter ave., Woodbine ave., westerly.....	300	10″	Clay		325.61
Bay st., St. James ave. to Pleasant st.....	250	15″	Clay		
	245	12″	Clay	715.01	
	228	10″	Clay		
Florida to Pleasant st....	235	12″	Clay	321.02	

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Florida to Sherman st....	304	20″	Clay	$1,092.89	
	377	18″	Clay		
	812	15″	Clay	945.16	
Sherman to Clarendon st.	151	8″	Cem.	46.82	
Catharine to Clarendon st.	194	10″	Clay	200.66	
Bowles to Cambridge st.	1,037	2′-8″x4′-0″	Brick	8,290.44	
	360	2′-2″x3′-3″	Brick		
Cambridge to Sycamore st.	332	24″	Clay	1,348.03	
	360	20″	Clay		
					$12,960.03
Bay st., I. O., Main to Lawe st.....	439	10″	Clay		786.38
Beacon st., Eastern ave. to Colton st.....	250	10″	Clay	179.24	
Colton st., easterly.....	106	8″	Clay	75.08	
					254.32
Beaudry st., I. O., Main st., southerly.....	300	12″	Clay		745.95
	270	10″	Clay		
Beaumont st., Belmont ave., northerly.....	250	12″	Clay	475.51	
	431	10″	Clay		
Belmont ave. to Sumner ave.....	264	10″	Clay	183.91	
					659.42
Beaumont terrace, Beaumont st., easterly.....	271	10″	Clay		298.12
Beech st., Central st., northerly.....	427	10″	Cem.		124.37
Beechwood ave., Sumner to Spruceland ave.....	595	12″	Clay		19.09
Belgrade place, Walnut st., westerly.....	220	8″	Clay		33.88
	140	6″	Clay		
Belle ave., Chestnut st., easterly to Cass st.....	544	24″	Clay		
	300	15″	Clay		2,951.54
	280	12″	Clay		
	250	10″	Clay		
Bellevue ave., Belmont ave., easterly.....	300	18″	Clay	....	
	300	15″	Clay		
	194	12″	Clay		
Dickinson st., westerly...	744	10″	Clay	30.67	
					30.67
Belmont ave., Fort Pleasant ave., easterly.....	90	10″	Clay	93.92	
Mill river to Woodside ter.	954	20″	Clay	2,713.44	
Woodside ter. to Litchfield	660	2′- 0″x3′-0″	Brick		
	445	1′-10″x2′-9″	Brick	11,978.81	
	595	1′- 8″x2′-6″	Brick		
	550	1′- 6″x2′-3″	Brick		

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Litchfield st. to Kenwood Park	432	20″	Clay	$1,682.59	
	493	18″	Clay		
Kenwood Park to Sumner ave.	301	15″	Clay		
	403	12″	Clay	901.28	
	616	10″	Clay		
*Sumner ave. to Woodlawn st.	830	3′- 4″x5′-0″	Brick	8,216.97	
	819	3′- 0″x4′-6″	Brick		
	245	3′- 0″x4′-6″	Br.C.	3,470.41	
	416	2′-10″x4′-3″	Br.C.		
*Woodlawn to White st.	1,637	2′-10″x4′-3″	Con.	7,237.33	
					$36,294.75
Belmont place, Belmont ave., southerly	216	10″	Clay		192.92
Belvidere st., Belmont ave. to Blake st.	300	20″	Clay		
	362	18″	Clay		2,322.42
	318	15″	Clay		
	330	12″	Clay		
Benton place, Benton st., easterly	300	10″	Clay		360.43
	325	8″	Clay		
Benton st., State st., southerly	301	12″	Clay		
	300	10″	Clay	513.96	
	247	8″	Clay		
	320	8″	Clay	419.68	
					933.64
Berendo st., Grenada terrace to Alderman st.	345	12″	Clay		375.60
Berkeley st., Princeton to Monmouth st.	483	12″	Clay		582.51
Berkshire st., I. O.					
Oak to Myrtle st.	701	12″	Cem.	946.21	
Oak st., easterly	387	12″	Clay	389.89	
Chestnut to Myrtle st.	577	12″	Clay	625.30	
Chestnut st., westerly	278	12″	Clay	542.99	
	180	10″	Clay		
					2,504.39
Besse place, Main st., westerly	290	10″	Clay		....
Bethel st., Brunswick st., easterly	300	10″	Clay		228.90
†**Beverly st.,** Northampton to Wilbraham ave.	250	12″	Clay		539.39
Biltmore st., Dickinson st. to Trafton road	350	15″	Clay		
	349	12″	Clay		905.28
	351	10″	Clay		
Birnie ave., Wason ave., northerly and easterly to North Main st.	896	24″	Clay	1,534.02	
	174	15″	Clay		

*Elliptical. †Storm water.

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Wason ave., southerly....	350	18″	Clay	$1,024.75	
	417	15″	Clay		
Worcester st. extension, northerly to Grace st...	162	15″	Cem.	72.28	
Worcester st. extension, southerly to Walter st..	144	12″	Cem.	36.15	
Douglas st., northerly....	292	24″	Clay		
	303	20″	Clay		
	304	15″	Clay	1,265.17	
	144	10″	Clay		
Douglas st. to near Hooker st.....	373	1′-10″x2′-9″	Brick	1,319.73	
	312	20″	Clay	768.74	
	316	18″	Clay		
	342	15″	Clay	576.67	
Arch to Hooker st.....	1,048	24″	Clay	37.11	
					$6,634.62
Birnie ave. extension, Arch st., southerly.....	445	10″	Clay		....
Blaine st., White st., easterly.....	373	24″	Clay	850.08	
	149	15″	Clay	402.21	
					1,252.29
Blake hill, Fort Pleasant ave., easterly.....	244	10″	Clay		236.22
Bliss st., from Main to N. Y., N. H. & H. R. R...	1,284	12″	Cem.		1,324.55
Bloomfield st., Oakland to Earl st.....	500	18″	Clay	1,692.55	
	527	15″	Clay		
Earl st. to Pasadena ave.	550	12″	Clay	917.72	
	273	10″	Clay		
					2,610.27
Bond place, including 41 feet in Bridge st. (for cost see Symonds ave.).	203	12″	Cem.		....
Bond st., Garden brook sewer to Chestnut st...	341	2′-0″x3′-0″	Brick	1,580.25	
	959	24″	Clay	2,285.89	
					3,866.14
Bowdoin st., Worthington st., southerly.....	660	15″	Cem.	762.11	
	285	12″	Clay	371.52	
Worthington to Ingersoll grove.....	819	12″	Cem.	758.64	
					1,892.27
Bowles st., Bay to McKnight.....	695	15″	Cem.	1,083.39	
	64	15″	Clay	136.50	
Pease st., northerly.....	275	8″	Clay	62.76	
					1,282.65

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
*Bowles park, Ardmore st., easterly	342	10″	Clay		$241.39
Boylston st., Cypress to	610	18″	Cem.		1,656.24
Clinton	346	15″	Cem.		
Bradford st., North Main	352	15″	Cem.		3,790.58
to Fulton st	758	12″	Clay		
Bridge st., Main st. to	798	12″	Cem.	$762.38	
Conn. river	275	15″	Clay	429.14	
Main to Chestnut st	1,158	2′-0″x3′-0″	Brick	5,414.20	
					6,605.72
Brightwood ave., Plainfield st., westerly	221	15″	Clay		237.94
Bristol st., Wilbraham road	299	15″	Clay		
to Marlborough st	560	12″	Clay	599.47	
Marlborough st., southerly	552	10″	Clay	293.99	
					893.46
Broad st., Hanover to Main st	970	15″	Cem.		1,401.19
Brookline ave., North st.,	328	12″	Clay		29.57
easterly	171	10″	Clay		
Brooklyn ave., Sumner ave., southerly	423	12″	Clay		329.56
Brown st., Yale to Bay st.	483	10″	Cem.		357.65
	21	8″	Cem.		
Brunswick st., Brooklyn ave., southerly	307	10″	Clay	190.48	
Blaine to Bethel st	251	18″	Clay		
	252	15″	Clay	1,031.89	
	252	12″	Clay		
Bethel st., northerly	225	10″	Clay	237.07	
					1,459.44
Bryant st., Belmont to Sumner ave	274	15″	Clay		
	301	12″	Clay		763.96
	300	10″	Clay		
Buckingham place, Bay st., westerly	235	10″	Clay		168.97
Buckingham st., Bay to Clarendon st	651	12″	Clay		
Bay st., southerly	35	12″	Cem.	597.24	
State to Bay st	305	18″	Clay		
	345	15″	Clay	1,158.40	
	675	12″	Clay		
					1,755.64
Burlington st., Belmont ave., northerly	137	10″	Clay		72.61
Burr st., Andrew st., easterly	570	12″	Clay		499.91

* Sanitary sewer.

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Burton st., White st. to	527	12″	Clay		$750.94
Kimberly ave.	180	10″	Clay		
Butler st., Chestnut to					
Cass st.	1,268	20″	Clay	$2,119.54	
Cass st., easterly	321	20″	Clay	520.71	
					2,640.25
Calhoun st., North Main					
to North st.	853	12″	Clay	701.77	
North st., easterly	300	8″	Clay	262.38	
					964.15
Cambridge st., Bay st.,					
southerly	276	20″	Clay		
	331	18″	Clay	1,204.43	
	266	15″	Clay		
	302	12″	Clay		
	278	10″	Clay	411.63	
Burr st., northerly	162	10″	Clay	142.44	
					1,758.50
Card-factory pond (see private ways).					
Carew st., Main st. to Garden brook (cost shown					
under Clinton st.)	*250	4′-6″x6′-9″	Brick	....	
	32	5′-0″ cir.	Brick	....	
	1,456	4′-3″ cir.	Brick		
Garden brook to Prospect					
st.	1,257	3′-0″ cir.	Brick	22,106.89	
	791	2′-8″ cir.	Brick		
Massasoit st., easterly	580	18″	Cem.	671.51	
	200	12″	Cem.	153.28	
Prospect to Armory st.	989	2′-8″ cir.	Con.		
	1,365	2′-6″x3′-9″	Con.	8,638.14	
Armory to Liberty st.	1,686	2′-2″x3′-3″ egg	Con.	5,955.05	
Liberty st., easterly	502	15″	Clay		
	499	12″	Clay	1,779.04	
	893	10″	Clay		
					39,303.91
Carlisle st., Wilbraham					
road, southerly	400	10″	Clay		355.69
	246	8″	Clay		
Carlton st., Woodlawn st.,					
westerly	264	12″	Clay		846.53
	102	10″	Clay		
Caseland st., Springfield	446	15″	Clay		
st. to Shefford st.	462	12″	Clay	1,706.54	
Shefford to Armory st.	*270	4′6″x3′0″	Con.	3,808.56	
					5,515.10
Cass st., Liberty to Frank-	500	12″	Clay		
lin st.	163	10″	Clay	575.28	
Linden st., southerly	596	15″	Clay		
Linden st., northerly	224	12″	Clay	892.07	
					1,467.35

* Elliptical.

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Castle ave., Sumner ave., southerly	526	12″	Clay		$675.22
Catharine st., Dartmouth to McKnight st.	833	2′-0″x3′-0″	Brick	$4,500.61	
State to McKnight st.	348	15″	Clay		
	438	12″	Clay	1,348.95	
	333	10″	Clay		
					5,849.56
Cedar st., Pine to Walnut st.	180	3′-10″x5′-9″	Brick	889.35	
	1,074	3′- 8″x5′-6″	Brick	6,206.73	
Pine st., westerly	378	12″	Cem.	324.09	
					7,420.17
Cedar st., I. O., Main to river	433	2′-0″x3′-0″	Brick	2,001.44	
Main to Centre st.	274	12″	Clay	263.92	
					2,265.36
Cemetery brook (see private ways).					
Center street, Oak Grove ave., northerly	1,008	10″	Clay		525.25
Centre st., I. O., Oak to Pine st.	463	12″	Cem.	546.58	
Pine to Cedar st.	349	12″	Clay	668.19	
	300	10″	Clay		
Cedar st., easterly	519	10″	Clay	474.04	
					1,688.81
Central st., Main st., easterly	99	15″	Cem.	147.60	
	546	12″	Cem.	385.49	
Main to Maple st.	63	2′-0″x3′-0″	Brick	119.57	
	463	2′-0″x3′-0″	Con.	2,332.17	
	*41	1′-10″x2′-9″	Con.	452.04	
	460	24″	Clay	2,665.22	
	434	20″	Clay		
near Maple st. to Sterns terrace	549	18″	Clay	883.33	
	105	12″	Clay	199.95	
Sterns terrace to Cedar st.	334	18″	Cem.	102.50	
Pine st., westerly	500	12″	Cem.	600.73	
Pine to Spruce st.	339	12″	Cem.	492.47	
	335	12″	Clay	707.63	
	310	10″	Clay		
Spruce to Hancock st.	861	20″	Clay	1,401.59	
Hancock to Mill st.	597	2′-0″x3′-0″	Brick	2,135.31	
Mill st. to Mill river	40	24″	Clay	136.83	
					12,762.43
Chapel st., Eastern ave., easterly	400	10″	Clay		314.19
Chapin terrace, Chestnut st., easterly	327	15″	Clay	1,124.82	
	279	12″	Clay		
*Marvin st., easterly	430	2′-4″x3′-6″	Con.	2,644.15	
					3,768.97

* Elliptical.

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Charles st., Liberty to	27	12″	Clay }	$647.16	
Franklin st.	620	12″	Cem. }		
Liberty st., southerly	29	12″	Clay	12.94	
Charter ave., Walnut st., easterly	527	12″	Clay		$660.10 564.24
Chase ave., Fort Pleasant ave., easterly	238	12″	Clay }		24.49
	333	10″	Clay }		
Cherrelyn ave., Phœnix st., southerly	300	15″	Clay	410.62	
	651	12″	Clay	574.73	
	50	10″	Clay	71.01	
Cherry st., Mill river to Central st.	398	18″	Clay }		1,056.36
	434	15″	Clay }		
	251	12″	Clay }		1,557.17
	295	10″	Clay }		
Cherryvale ave., Longhill st. to Florentine gardens	596	10″	Clay		503.68
Chester st., Mill st., northerly	459	12″	Clay }	549.83	
	161	10″	Clay }		
	112	8″	Clay	....	
Chestnut st., Edwards st., southerly	575	12″	Cem.	595.03	549.83
Mattoon st., southerly	288	15″	Cem.	319.69	
Pearl to Mattoon st.	313	1′-4″x2′-0″	Brick	445.40	
Pearl to Bridge st.	143	1′-8″x2′-6″	Brick	599.51	
Bridge to Worthington st.	480	2′-0″ cir.	Brick	....	
Worthington to Bridge st.	353	24″	Clay	1,175.53	
Worthington to Taylor st.	60	18″	Cem. }	302.35	
	244	12″	Cem. }		
Lyman to Liberty st.	134	18″	Cem. }		
	72	12″	Cem. }	997.90	
	258	12″	Clay }		
Ferry st., northerly	150	12″	Clay	767.51	
Franklin st., southerly	488	12″	Cem.	378.49	
Franklin to Greenwood st.	224	24″	Clay	1,248.43	
Greenwood st., northerly	242	12″	Clay	1,038.03	
Essex to Everett st.	374	15″	Cem.	586.72	
Carew st., southerly	126	8″	Clay	100.68	
Carew to Prospect st.	424	24″	Clay }	1,618.64	
	537	20″	Clay }		
Prospect st., northerly	220	12″	Cem.	251.23	
Bancroft st., southerly	172	12″	Cem.	123.00	
	108	12″	Clay }	190.55	
	19	10″	Clay }		
Bancroft to Montmorenci st.	391	15″	Cem.	535.24	

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Bancroft to Montmorenci st. (see Bancroft st.)	....	3'-2"x4'-9"	Brick	....	
Montmorenci to Waverly st.	185	12"	Cem.	$1,100.74	
	717	12"	Clay		
Douglas st., southerly	450	10"	Clay	432.05	
Douglas to Springfield (see Springfield st.)	....	3'-6" cir.	Brick	....	
Merwin st., southerly	178	10"	Clay	30.88	
Eagle st., northerly	87	15"	Clay	....	
Eagle st., southerly	171	10"	Clay	37.82	
Noble to Jenks st.	341	12"	Clay	653.42	
					$13,528.84
Chestnut st., I. O., Worcester to Hampden st.	342	15"	Cem.	340.25	
	30	15"	Clay	55.26	
Hampden to Berkshire st.	307	15"	Clay	342.65	
					738.16
Chicopee road, land of B. & A. R. R., easterly to St. James ave.	*1,170	2'-10"x4'-3"	Con.	6,574.76	
Carew st., southerly	656	10"	Clay	1,033.72	
Carew st., northerly	451	10"	Clay	391.91	
					8,000.39
Chilson st., Sumner ave., southerly	304	10"	Clay		252.28
Church st., Garden brook to North st.	636	18"	Clay		1,731.13
Churchill st., Sumner ave. to Garfield st.	580	12"	Clay	151.22	
	55	8"	Clay	6.89	
					158.11
Clantoy st., Phœnix to Dupont st.	398	15"	Clay		
	517	12"	Clay		1,221.21
	366	10"	Clay		
Claremont st., Orange st., southerly	492	10"	Clay		264.58
Clarendon st., Worthington st., westerly	205	10"	Clay	225.80	
Worthington to St. James ave.	336	18"	Cem.		
St. James ave. to Sherman st.	280	15"	Clay	1,859.31	
	605	12"	Clay		
					2,085.11
Clark st., Hancock st., westerly	520	10"	Clay		531.80
Clayton st., Plainfield st., westerly	299	18"	Clay	583.76	
	322	15"	Clay	497.83	
	315	12"	Clay	688.43	
	320	10"	Clay		
					1,770.02
Clermont st., I. O., Healey ave., easterly	150	10"	Clay		123.28

* Elliptical.

SEWER SYSTEM.—*Continued*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Cleveland st., Armory to Liberty st.	274	18″	Clay		
	250	15″	Clay		
	276	12″	Clay		$790.48
	284	10″	Clay		
Clifford st., Bay st., northerly	250	12″	Clay		
	119	10″	Clay		357.34
Clifton ave., Central st., southerly	398	8″	Clay		134.54
Cliftwood st., Sumner ave., southerly	464	10″	Clay		65.99
Clinton st., Fulton to Boylston st.	150	10″	Clay	$11.07	
Boylston st., easterly	410	12″	Cem.	441.52	
submerged outlet	176	24″	W'd		
	24	24″	C-ir.	2,207.90	
Conn. river to Fulton st.	593	4′-10″x7′-3″			
Fulton st., Clinton to Sargeant st.					
Sargeant st., Fulton to Main st.			Brick	26,137.87	
Carew st., Main st. to Garden brook					
(For lengths and sizes see individual streets.)					
					28,798.36
Clyde st., Plainfield st., westerly	350	18″	Clay		
	350	15″	Clay		1,587.01
	271	12″	Clay		
College st., State st. to Shattuck st.	839	12″	Clay	662.25	
†Shattuck st., southerly	50	20″	Clay	245.12	
†Shattuck st., northerly	300	18″	Clay		
	500	15″	Clay	1,956.34	
*Shattuck st. to Acorn st	311	12″	Clay		
State st. to Wilbraham	900	10″	Clay	457.62	
road	34	12″	Clay		
	443	10″	Clay	387.72	
					3,709.05
Collins st., Eastern ave. to Logan st.	300	12″	Clay		
	269	10″	Clay		457.04
Colonial ave., State st., southerly	326	12″	Clay		
	348	10″	Clay		69.22
Colton st., Wilbraham road	448	18″	Clay		
to Beacon st.	569	15″	Clay		2,048.71
	658	12″	Clay		
Columbia terrace, Liberty st., north and east	498	10″	Clay		....

* Sanitary sewer. † Storm water sewer.

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Commonwealth ave., Belmont to Washington ave.	441	24″	Clay		
	500	20″	Clay	$3,011.11	
	549	18″	Clay		
Washington ave. to Fairview st.	691	15″	Clay	720.72	
					$3,731.83
Concord terrace, Wilbraham road, northerly	253	10″	Clay		353.06
Congress st., Garden brook to Main st.	53	12″	Cem.	75.46	
	319	12″	Clay	705.44	
Garden brook to Chestnut st.	133	20″	Clay		
	198	18″	Clay	1,463.00	
	369	15″	Clay		
	288	12″	Clay		
	119	15″	Cem.	277.22	
	76	10″	Cem.		
					2,521.12
Connecticut ave., Farnsworth st., southerly	221	10″	Clay		177.05
Continental st., Sumner ave., southerly	215	12″	Clay		102.05
	266	10″	Clay		
Converse st., Sumner ave. to Vermont st.	506	18″	Clay		443.87
Cook's ave., Worthington st. to N. Church ave.	117	15″	Cem.		
N. Church ave., southerly (includes cost of N. Church ave.)	69	10″	Cem.		672.96
Coomes st., Leete st., southerly	421	12″	Clay		2,006.81
Cornell st., Dartmouth terrace to Wellesley st.	185	15″	Clay	543.05	
	374	12″	Clay		
Wellesley st., easterly	186	10″	Clay	208.20	
Princeton st., westerly	52	10″	Cem.	47.30	
	86	8″	Clay	88.04	
Princeton st., easterly	181	10″	Cem.	132.12	
	120	10″	Clay	180.93	
					1,199.64
Cortland st., State st., northerly	164	15″	Clay	826.36	
	621	12″	Clay		
*Shattuck st., southerly	304	15″	Clay	1,671.52	
	346	12″	Clay		
					2,497.88
Cottage ave. (see Melrose st.)					
Court st., Court Square ave., westerly	461	12″	Cem.	621.55	
Main st. to Court Sq. ave.	200	12″	Cem.	357.46	
					979.01

*Storm water sewer.

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Crane st., Franklin st., northerly	438	10″	Clay		$725.69
Crosby st., Walnut st., westerly	321	10″	Clay		231.38
Cross st., Main to Willow st.	388	18″	Clay	$951.12	
Willow st., easterly	363	12″	Cem.	352.25	
					1,303.37
Crossett lane, Willow st., westerly	169	10″	Clay		363.15
Crown st., White st., easterly	341	15″	Clay		932.22
	135	12″	Clay		
	91	10″	Clay		
Crystal ave., Belmont ave., easterly	251	15″	Clay		
	250	12″	Clay	24.07	
	298	10″	Clay		
*Dickinson st., westerly	362	15″	Clay	650.64	
	372	12″	Clay		
					674.71
Cumberland st., Chestnut st., westerly	167	10″	Clay	125.29	
North Main to North st.	205	15″	Clay	300.96	
	238	12″	Clay	284.06	
					710.31
Cypress ave., Cypress st., northerly	360	12″	Cem.	484.08	
	40	12″	Clay	23.78	
					507.86
Cypress st., Conn. river to Garden brook in Ferry st.	1,081	3′-4″x5′-0″	Brick	10,086.73	
†Connecticut river to Fulton st.	385	4′-10″x7′-3″	Con.	3,919.09	
†Fulton to Main st.	691	4′- 2″x6′-3″	Con.	6,470.80	
					20,476.62
Dale st., northerly from sewer 60 ft. south of Hubbard ave.	203	10″	Clay	222.58	
Winthrop st., southerly	46	8″	Clay	13.08	
Winthrop st., northerly	123	10″	Clay	259.62	
William st., northerly	143	10″	Clay	288.91	
					784.19
Dartmouth st., St. James ave. to Yale st.	973	3′-0″x4′-6″	Brick		8,247.06
Yale to Bowles st.	295	2′-6″x3′-9″	Brick		
Dartmouth terrace, Worthington to Cornell st.	499	20″	Clay		2,213.06
	357	18″	Clay		
	177	15″	Clay		

*Surface drainage only. † Elliptical.

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Davis court, Bridge st. to Harrison ave.	450	12″	Clay		$500.67
Daviston ave., Allen to West Alvord st.	403	10″	Clay		
West Alvord to East Alvord st.	400	10″	Clay		1,258.06
East Alvord st., southeasterly	299	10″	Clay		
Sumner ave., northerly	267	18″	Clay		
Dawes st., Bay st., southerly	299	15″	Clay		
	310	12″	Clay		207.36
	518	10″	Clay		
Dawson ave., White street, westerly	350	10″	Clay		118.35
Daytona st., Belmont to Sumner ave.	524	12″	Clay		500.44
Demond ave., Fisk ave., westerly	510	12″	Clay		
Plainfield st., easterly	403	12″	Clay		642.06
Denton circle, Liberty st., easterly	406	12″	Clay		473.00
Dexter st., Knox to Pine st.	300	15″	Clay	$686.15	
	282	12″	Clay		
	202	10″	Clay	219.08	
					905.23
Dickinson st., Mill st. to Sumner ave.	35	4′-6″ cir.	Brick		
	60	2′-1″x5′-0″	Con.		
	251	5′-0″ cir.	Brick		
	679	4′-0″ cir.	Brick	44,606.56	
	*460	4′-10″x7′-3″	Brick		
	*869	4′-8″x7′-0″	Brick		
	*1,040	4′-4″x6′-6″	Brick		
	*996	4′-2″x6′-3″	Brick		
Sumner ave., southerly	1,379	2′-6″x3′-9″	Brick		
	324	2′-4″x3′-6″	Brick	8,806.81	
	434	2′-0″x3′-0″	Brick		
	312	1′-10″x2′-9″	Brick		
					53,413.37
Division st., Plainfield st., westerly	300	18″	Clay		
	360	15″	Clay		1,001.34
Donald st., Birnie ave., easterly	315	10″	Clay		406.60
Dorchester st., St. James ave. to Amherst st.	364	12″	Clay		
	238	10″	Clay		417.70
Dorne st., Smith st., northerly	219	12″	Clay		182.12
Douglas st., B. & M. R. R. to North Main st. (see Rowland ave.)	....	....	....		....

* Elliptical.

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Dover st., North Main to Chestnut st	424	4′-6″ cir.	Brick		$4,805.19
	442	4′-0″ cir.	Brick		
Dresden st., State st., southerly	359	12″	Clay		25.14
	321	10″	Clay		
Dunmoreland st., Wilbraham road, southerly	301	15″	Clay		
	302	12″	Clay	$1,113.42	
	350	10″	Clay		
*Westford circle, northerly	584	10″	Clay	681.23	
*Westford circle to King st	546	10″	Clay	510.37	
†Westford circle, southerly	276	10″	Clay	672.35	
					2,977.37
***Duryea st.**, Page boulevard to Eureka st	1,068	10″	Clay		1,029.27
Dwight road, White to Leslie st	346	18″	Clay		2,075.78
	348	15″	Clay		
Dwight st., Sanford to State st	258	2′-8″x4′-0″	Brick	1,571.86	
Sanford st. to Harrison ave.	253	20″	Clay		
	229	18″	Clay	1,441.27	
	199	15″	Clay		
Harrison ave., northerly	129	12″	Clay	319.96	
Hillman st., southerly	226	10″	Clay	289.25	
Hillman st., northerly	103	10″	Clay	420.28	
Worthington st., southerly	269	12″	Clay	433.91	
Worthington st., northerly	342	12″	Cem.	374.73	
					4,851.26
Dwight st. extension, Saratoga st., southerly	249	12″	Clay		349.37
Dwight st. underpass, Liberty st., southerly	390	12″	Clay		....
Dymon st., Walnut st., easterly	415	12″	Cem.		385.92
Eagle st., North Main to Chestnut st	643	15″	Clay		....
Earl st., Bloomfield st., northerly	190	10″	Clay		157.32
East Alvord st., West Alvord st. to Daviston avenue	495	18″	Clay		1,031.68
	598	12″	Clay		
East Court st., Dwight st., westerly	206	12″	Clay		303.10
	62	10″	Clay		

*Sanitary sewer. †Storm water sewer.

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
East Hooker st., North Main to North st.....	444	10″	Cem.	$110.26	
	255	10″	Clay	....	
					$110.26
Eastern ave., Watershops pond to Manhattan st..	1,164	24″	Clay	2,164.43	
Manhattan to Alden st....	338	20″	Clay	636.21	
Alden to Collins st.....	231	12″	Clay	313.99	
Greene st., southerly.....	125	8″	Clay	69.58	
Greene to Ladd st.....	38	15″	Clay	67.21	
Olive st., southerly.....	169	8″	Clay	167.87	
Lebanon to Olive st.....	159	12″	Cem.	190.96	
Lebanon to King st.....	194	12″	Cem.	351.89	
	55	12″	Clay	95.43	
King to Chapel st.....	152	10″	Cem.	166.50	
	101	10″	Clay	149.70	
Pendleton ave., northerly.	312	12″	Cem.	256.78	
Tyler st., northerly.....	286	12″	Cem.	181.30	
Quincy st., northerly.....	118	10″	Cem.	131.15	
Monroe st., southerly....	28	12″	Cem.	45.09	
	210	8″	Clay	179.00	
Monroe st., northerly....	29	12″	Cem.	51.50	
	123	8″	Clay	84.98	
Wilbraham rd., southerly	296	12″	Clay	1,250.01	
					6,553.58
Eddywood ave., Sumner ave., northerly.....	328	10″	Clay		436.66
*Edendale st., Page blvd. to Bowles park.....	1,471	10″	Clay		1,299.39
Edgemont st., State st., northerly.....	499	10″	Clay		554.05
	296	8″	Clay		
*Edgewood st., Acorn to Bay st.....	1,001	8″	Clay		443.73
Edwards st., Chestnut st., easterly.....	551	12″	Cem.		495.36
Eldredge st., Belmont ave. to Washington st.... .	531	10″	Clay		579.10
Eleanor road, White st., southerly.....	277	15″	Clay		854.78
	430	12″	Clay		
Elliot st., Salem st., southerly.....	610	15″	Cem.	730.48	
	243	12″	Cem.	341.99	
					1,072.47
Elm st., submerged outlet..	191	24″	Wood	1,700.79	
	26	24″	C. Iron	359.80	
Conn. river to Water st...	385	3′-9″ cir.	Brick	10,759.40	
Water to Main st.....	996	3′-8″x5′-6″	Brick		
					12,819.99

*Sanitary sewer.

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Elmwood st., Main to Hanover st.	300	18″	Clay		
	249	15″	Clay		$1,058.02
	299	12″	Clay		
Emery st., Boylston st., east and west	542	12″	Cem.		653.92
Essex street, Garden brook, westerly	418	15″	Cem.	$355.00	
Garden brook to Chestnut st.	1,115	2′-2″x3′-3″	Brick	7,140.62	
	204	18″	Cem.	434.71	
					7,930.33
Essex st., I. O., Oak to Myrtle st.	254	12″	Clay		
Oak st., easterly	426	10″	Clay	662.25	
	183	10″	Clay	248.23	
					910.48
Eton st., Sumner ave. to Morningside park	502	12″	Clay		698.40
	272	10″	Clay		
Euclid ave., Belmont ave. to Dickinson st.	389	12″	Clay		
	741	10″	Clay	1,203.46	
	77	8″	Clay	50.67	
*Dickinson st., westerly	350	15″	Clay		
	350	12″	Clay	773.10	
Dickinson st., easterly	275	10″	Clay	332.10	
Orange st., southerly	257	18″	Clay		
	172	10″	Clay	871.20	
Orange st., northerly	30	12″	Clay	23.07	
					3,253.60
Everett st., Chestnut st. to brook	323	15″	Cem.	320.58	
brook to Cass st.	926	15″	Clay	821.43	
Cass st., easterly	313	15″	Clay	646.97	
					1,788.98
Fairbanks place, Worthington st., northerly.	249	10″	Clay		251.54
Fairfield st., Litchfield to Garfield st.	376	12″	Clay	....	
	556	10″	Clay	351.64	
					351.64
Fairmount st., Commonwealth ave. to Lawndale st.	350	10″	Clay		173.17
Falmouth st., I. O., Parker st., westerly	204	18″	Clay		275.44
Farnsworth st., Hamburg st. to Connecticut ave.	530	20″	Clay	1,653.14	
	279	18″	Clay		
	341	12″	Clay	1,011.82	
	264	10″	Clay		
					2,664.96

* Surface drainage only.

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Federal st., Worthington to Pearl st.	567	12″	Cem.	$740.92	
Summer st., southerly.	274	10″	Clay	172.00	
					$912.92
Ferry st., Main to Garden brook (see Cypress st.).	....	....	....	....	
Garden brook to Chestnut st.	1,168	2′-4″x3′-6″	Brick	5,417.12	
Main st., easterly.	*394	4′-2″x6′-3″	Con.	11,067.29	
	1,004	4′-9″ cir.	Con.		
					16,484.41
Firglade ave., Sumner ave. to Spruceland st.	350	10″	Clay	239.66	
	203	8″	Clay		
Spruceland to Pineywoods avenue.	447	10″	Clay	....	
	67	8″	Clay	....	
Pineywoods ave. to Washington boulevard.	242	12″	Clay	431.88	
	176	10″	Clay		
					671.54
Fisk ave., Rowland to Worcester ave.	272	24″	Clay	1,073.11	
	275	20″	Clay		
	298	10″	Clay		
Wason ave., southerly.	299	24″	Clay	1,216.81	
	294	20″	Clay		
	248	12″	Clay		
					2,289.92
Florence st., Pine st., easterly.	824	15″	Cem.	2,227.38	
	651	12″	Cem.		
Hancock st., easterly.	253	10″	Cem.	323.93	
	26	10″	Clay	31.11	
					2,582.42
Florentine gardens, Pineywoods ave., northerly.	421	10″	Clay		81.89
Florida st., Worthington to Ingersoll Grove st.	555	15″	Clay	978.89	
	279	12″	Clay		
Worthington to St. James ave.	935	2′-2″x3′-3″	Brick	4,499.10	
St. James ave. to Bay st.	599	24″	Clay	1,832.21	
					7,310.20
Forest st., Belmont to Forest Park ave.	419	12″	Clay		806.38
	255	10″	Clay		
Forest Park ave., Fort Pleasant ave. to Garfield st.	1,081	24″	Clay	....	
	325	20″	Clay	1,217.48	
	562	18″	Clay		
Sumner ave., northerly.	567	12″	Clay	177.07	
Sumner ave., southerly.	66	10″	Clay	....	
	438	10″	Clay	379.92	

*Elliptical.

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Pineywoods ave., northerly	380	10″	Clay	$60.18	
					$1,834.65
Fort st., Main to Water st.	633	12″	Cem.		633.43
Fort Pleasant ave., Mill river to Sumner ave.	1,825	2′-4″x3′-6″	Brick	13,339.80	
		2′-0″x3′-0″	Brick		
Mill st., southerly	428	12″	Clay	293.42	
					13,633.22
Foster st., Knox st., easterly	511	12″	Clay	517.25	
	224	12″	Cem.	34.68	
					551.93
Fountain place, Belmont ave., southerly	299	12″	Clay	310.25	
Sylvan to Woodlawn st.	299	10″	Clay	525.63	
					835.88
Franklin st., Garden brook sewer to Main st.	434	18″	Cem.	593.13	
Garden brook sewer to Chestnut st.	919	2′-2″x3′-3″	Con.	4,106.84	
	295	20″	Clay	804.75	
Chestnut to Charles st.	273	15″	Clay	384.87	
Charles to Cass st	827	12″	Clay	1,168.25	
	276	10″	Clay		
Cass to Murray Hill ave.	621	12″	Clay	1,051.76	
	330	10″	Clay		
Nursery st., westerly	207	15″	Clay	....	
Nursery to Genesee st.	107	15″	Clay	199.93	
	557	15″	Cem.	....	
	27	12″	Clay	57.66	
					8,367.19
Freeman terrace, Stockman to Phœnix st.	252	18″	Clay		870.04
	270	15″	Clay		
Fremont st., Main to Water st.	780	1′-6″x1′-7″	Brick	702.45	
Main st., westerly	656	12″	Cem.	692.92	
	30	12″	Clay	65.21	
					1,460.58
Fresno st., Page boulevard, easterly	935	10″	Clay		4,205.84
Fulton st., Cypress to Clinton st.	944	12″	Cem.	924.38	
*Clinton to Sargeant st. (cost shown under Clinton st.)	1,080	4′-8″x7′-0″	Brick	....	
	42	4′-10″x7′-3″	Brick	....	
Sargeant to John st.	254	18″	Clay	1,700.43	
	301	15″	Cem.	660.22	
John st., northerly	314	12″	Clay	674.48	
	408	10″	Clay		
					3,959.51

* Elliptical.

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Garden brook sewer (see private ways).					
Gardner ave., Gardner st., northerly	151	8″	Clay		$73.11
Gardner st., Hanover to Water st	655	2′-0″x3′-0″	Brick	$1,995.23	
Water to Main st	226	12″	Clay	504.81	
	199	10″	Clay		
					2,500.04
Garfield st., Forest Park ave., easterly	556	15″	Clay	1,073.96	
	514	12″	Clay		
Belmont ave., westerly	531	10″	Clay	450.79	
					1,524.75
Genesee st., Franklin st., southerly	200	10″	Clay	281.49	
Armory to Liberty st	350	12″	Clay	645.23	
	351	10″	Clay		
					926.72
George st., Dexter st., southerly	409	10″	Clay		473.60
Girard ave., Bay to McKnight st	944	12″	Clay		863.45
Glendell terrace, Euclid ave., easterly — north side	101	12″	Clay	569.36	
	175	10″	Clay		
Euclid ave., easterly — south side	2	10″	Clay	496.36	
					1,065.72
Goodrich st., Liberty st., northerly	40	10″	Clay		460.87
Gordon st., Pasadena ave. to White st	618	15″	Clay		627.46
Governor st., Armory st. to Penacook ave	424	20″	Clay		
	401	18″	Clay		
	402	15″	Clay		1,276.19
	224	12″	Clay		
Grace st., Birnie ave., easterly	274	15″	Cem.		51.56
Grand st., Revere st., easterly	250	15″	Clay	....	
	252	12″	Clay		
Revere st., westerly	151	10″	Clay	30.85	
					30.85
Grant st., Magazine to Armory st	588	12″	Cem.		477.26
Granville st., Eastern ave. to Logan st	248	12″	Clay		644.77
	247	10″	Clay		
Gray's ave., Cypress st., northerly	495	12″	Cem.		460.92

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Greenacre sq. (north), Foster st., easterly	201	10″	Clay		$173.46
Greenacre sq. (south), Foster st., easterly	346	10″	Clay		316.93
Greenbrier st., Larkspur to Trillium st.	300	10″	Clay		322.19
Blaine to Trillium st.	270	10″	Clay		
Greene st., Hancock to Eastern ave.	610	18″	Cem.		1,897.68
	793	15″	Cem.		
Green lane, Rimmon ave., westerly and northerly.	744	12″	Clay	....	
	143	10″	Clay	....	
					....
Greenleaf st., Sumner ave. to Garfield st.	527	12″	Clay		178.85
Greenwich st., Birnie ave., easterly	300	12″	Clay		467.79
	300	10″	Clay		
Greenwood st., Garden brook to Main st.	250	15″	Clay	$645.46	
	136	12″	Clay		
Garden brook, easterly	538	15″	Clay		
	448	12″	Clay	1,639.27	
	117	10″	Clay		
					2,284.73
Grenada terrace, Dickinson to Ventura st.	220	18″	Clay	828.48	
	310	15″	Clay		
Ventura st., easterly	309	12″	Clay	445.27	
	216	10″	Clay		
					1,273.75
Grosvenor st., North to Chestnut st.	131	18″	Cem.		721.17
	648	15″	Cem.		
Grove st., North Main st., easterly	409	10″	Clay		442.65
North st., westerly	270	10″	Clay		
Groveland ave., Dickinson st. to town line	533	12″	Clay		525.19
	117	10″	Clay		
Grover st., Armory to Liberty st.	300	18″	Clay		
	303	15″	Clay		910.58
	298	12″	Clay		
	432	10″	Clay		
†**Gunn sq.**, Westford ave., westerly	290	10″	Clay		343.09
Hall st., Belmont ave. to Dickinson st.	500	12″	Clay	904.55	
	474	10″	Clay		
*Dickinson st., southerly.	774	12″	Clay	698.29	
					1,602.84
Hamburg st., Springfield st., easterly	367	20″	Clay		1,067.20
	235	10″	Clay		

* Surface drainage only. †Sanitary sewer.

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Hampden st., Water to Main st.	569	15″	Cem.		$762.57
Hampden st., I. O., Chestnut st., easterly	285	12″	Cem.	$187.28	
	174	12″	Clay	299.12	
Holly st., easterly	150	10″	Clay	165.26	
Pine st., westerly	200	12″	Clay	370.33	
	199	10″	Clay		
					1,021.99
Hampshire st., I. O., Oak st., westerly	300	12″	Clay	633.59	
	398	10″	Clay		
Oak st., easterly	250	12″	Cem.	206.20	
Pine st., westerly	469	10″	Clay	539.21	
Myrtle st., westerly	300	10″	Clay	295.05	
					1,674.05
Hancock st., Mill river to Central st.	920	12″	Clay	995.01	
Central to Walnut st.	218	18″	Cem.	1,874.54	
	1,343	15″	Cem.		
Walnut to Alden st.	122	12″	Cem.	88.00	
Lebanon to Alden st.	827	2′-0″x3′-0″	Brick	5,009.61	
Walnut (through Lebanon) to Quincy st.	1,852	3′-6″x5′-3″	Brick	21,668.02	
Quincy to State st.	913	3′-4″x5′-0″	Brick		
					29,635.18
Hanover st., York to Gardner st.	830	2′-2″x3′-3″	Brick		2,650.26
Harriet st., North Main to North st.	250	15″	Clay	377.17	
	207	12″	Clay		
North st., easterly	330	10″	Clay	200.13	
					577.30
Harrison ave., Main to Chestnut st.	600	15″	Cem.	874.11	
	250	8″	Clay	203.61	
					1,077.72
Harvard st., Yale st. to St. James ave.	316	18″	Clay	998.99	
	300	15″	Clay		
	291	12″	Cem.	266.84	
St. James ave. to Cornell st.	736	12″	Cem.	122.29	
					1,388.12
Hastings st., Kendall ave., easterly	250	15″	Clay	734.61	
	250	12″	Clay		
	201	10″	Clay		
Freeman terrace, easterly	250	12″	Clay	651.30	
	254	10″	Clay		
					1,385.91

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Hawley st., State st., southerly	110	12″	Cem.		
Monroe st., northerly	71	12″	Cem.		$300.34
	330	10″	Clay		
Hawthorne st., Hancock to Spruce st	492	12″	Clay		1,520.13
Hayden ave., State st., northerly	335	12″	Clay		
	557	10″	Clay		308.14
Healey ave., I. O., Worcester to South st	989	15″	Clay	$1,876.01	
South st., southerly	350	12″	Clay		
	84	10″	Clay	575.54	
					2,451.55
Hebron st., North to Chestnut st	663	12″	Clay		519.82
Herman st., Sumner ave. to Vermont st	257	12″	Clay		
	286	10″	Clay		658.81
Hiawatha st., White st., westerly	383	10″	Clay		347.99
Hickory st., Hancock st., easterly	200	12″	Clay		
	252	10″	Clay	868.40	
Mill river intercepting sewer to Alden st	754	20″	Clay		
	228	18″	Clay		
	184	15″	Clay	2,557.29	
	788	12″	Clay		
					3,425.69
High st., Maple st. to Ingraham ave	523	18″	Clay		
	567	15″	Clay	1,958.92	
	550	12″	Clay		
Ingraham ave., easterly	846	12″	Clay	987.71	
					2,946.63
Hillman st., Main to Dwight st	350	15″	Clay		1,436.30
	380	12″	Clay		
Hillside place, Richelieu court, easterly	106	8″	Clay		....
Holland st., North Main st., easterly	225	12″	Clay		
	50	10″	Clay		425.75
Holly st., I. O., Worcester to Hampden st	377	15″	Clay	419.11	
Hampden st., southerly	175	12″	Clay	117.69	
					536.80
Hollywood st., Commonwealth ave., easterly	211	12″	Clay		
	241	10″	Clay	508.61	
Dickinson st., easterly	174	10″	Clay	171.67	
					680.28

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Holyoke st., Main st., westerly	734	12″	Cem.		$1,104.47
Home st., Liberty st., westerly	424	10″	Clay	$322.65	
Penacook ave., easterly	246	10″	Clay	246.22	
					568.87
Homer st., State st., southerly	31	12″	Clay		186.81
	464	10″	Clay		
Horace st., Dickinson st., northerly	363	12″	Clay		861.90
	411	10″	Clay		
Howard st., Main st., westerly	344	15″	Clay	837.22	
	321	12″	Clay		
Water st., easterly	276	12″	Cem.	255.78	
	30	12″	Clay	43.40	
Water st., westerly	314	12″	Cem.	326.98	
	31	12″	Clay	90.75	
					1,554.13
Hubbard ave., Main st., easterly	257	15″	Clay		630.47
	321	12″	Clay		
Hughes st., Sylvan ave., westerly	252	10″	Clay		233.16
Hunt terrace, Allen st., northerly	304	10″	Clay		....
Hunter place, State st., northerly	350	12″	Clay		602.72
	313	10″	Clay		
Huntington st., Birnie ave., easterly	300	12″	Clay		441.98
	300	10″	Clay		
Hyde ave., Fisk ave. to Plainfield st	301	15″	Clay		712.99
	300	12″	Clay		
	219	10″	Clay		
Ingersoll grove, Worthington st., northerly	782	12″	Cem.	1,038.85	
	218	8″	Clay		
Florida st., easterly	146	10″	Clay	90.97	
Bowdoin st., easterly	132	10″	Clay	106.53	
					1,236.35
Ionia st., State st., northerly	720	10″	Clay		445.92
Irvington st., Sumner ave. to Morningside Park	300	12″	Clay		201.07
	400	10″	Clay		
Itendale st., Belmont ave. to Washington st	277	20″	Clay		1,520.83
	455	18″	Clay		
James st., Cedar st., northerly	289	15″	Cem.		924.38
	534	12″	Cem.		

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Jefferson ave., North Main to Chestnut st.	299	20″	Clay		
See private ways also.	299	18″	Clay	$1,755.12	
	276	15″	Clay		
	60	12″	Clay		
	414	12″	Cem.	531.66	
	78	6″	Clay	37.89	
					$2,324.67
Jenks st., North Main to Chestnut st.	404	12″	Clay		699.05
John st., Fulton to Plainfield st.	652	12″	Cem.		420.18
Johnson st., Dickinson st. to Pasadena ave.	1,964	18″	Clay		3,756.87
Johnson st., I. O., Main to South st.	500	20″	Clay		1,254.26
	463	18″	Clay		
Keith st., Belmont ave. to	551	12″	Clay		
Dickinson st.	551	10″	Clay	1,106.40	
*Dickinson st., southerly.	350	15″	Clay		
	301	12″	Clay	823.06	
	186	10″	Clay		
					1,929.46
Kendall st., Liberty st. to Sherman ave.	907	18″	Clay		2,462.18
Kensington ave., Oakland	451	18″	Clay		
to Earl st.	402	15″	Clay		2,324.76
Earl st. to Pasadena ave.	567	12″	Clay		
	260	10″	Clay		
Kenwood park, Belmont	130	12″	Clay		261.80
ave., northerly.	1,127	10″	Clay		
Kenwood terrace, Belmont	218	12″	Clay		463.91
to Sumner ave.	328	10″	Clay		
Kibbe ave., Summer to Worthington st.	260	18″	Clay		552.92
Kibbe Hollow, northerly of Worthington st.	447	24″	Clay	....	
Southerly of Worthington st.	144	15″	Clay	324.32	
Kimberly ave., White st.,	250	12″	Clay		324 32
northerly.	282	10″	Clay		1,315.99
Rupert to Mansfield st.	719	10″	Clay		
King st., Walnut to Han-	504	15″	Cem.		
cock st.	441	12″	Cem.	921.37	
Hancock to Logan st.	311	20″	Clay		
	399	18″	Clay	2,650.91	
	686	15″	Clay		
	238	12″	Clay		
	239	10″	Clay	701.29	
†Westford to Wilbraham ave.	427	10″	Clay	321.81	

*Surface drainage only. † Sanitary sewer.

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
*Westford ave., easterly..	225	10″	Clay	$197.13	
**Massachusetts av. to Dunmoreland st.....	248	10″	Clay	278.75	
**Massachusetts to Westford av.....	243	12″	Clay	511.75	
	84	10″	Clay		
**Northampton to Wilbraham av.....	221	20″	Clay	922.15	
					$6,505.26
Knox st., Mill river to Windsor st.....	1,303	24″	Clay		3,132.56
Ladd st., Eastern ave. to Logan st.....	304	15″	Clay		479.68
	243	12″	Clay		
Lafayette st., St. James ave. to Amherst st.....	582	12″	Clay		614.58
	21	10″	Clay		
Langdon st., Penacook ave., easterly.....	504	12″	Clay		679.73
	326	10″	Clay		
Larkspur st., White st., easterly.....	299	15″	Clay		500.85
	304	12″	Clay		
	101	10″	Clay		
Laurel st., Conn. river to Plainfield st.....	534	18″	Cem.	1,548.19	
	405	18″	Clay	1,358.28	
	20	18″	Clay	44.62	
					2,951.09
Laverne ave., Bellevue ave. to Marengo park.....	211	10″	Clay		....
Lawndale st., Belmont ave. to Glenwood st...	300	12″	Clay		614.64
	302	10″	Clay		
Lebanon st. (see Hancock)	....	3′-6″x5′-3″	Brick	....	
Hancock st., westerly....	158	2′-0″x3′-0″	Brick	1,495.77	
Hancock to Eastern ave..	606	18″	Cem.	1,869.20	
	816	15″	Cem.		
					3,364.97
Ledyard st., Armory st., northwesterly.....	478	10″	Clay		321.39
Leete st., Longhill st., easterly.....	431	18″	Clay		1,570.13
	270	15″	Clay		
	150	10″	Clay		
Lenox st., Sumner ave., southerly.....	465	10″	Clay		103.74
Leonard st., Franklin st., northerly.....	367	12″	Clay		832.48
	52	10″	Clay		
Leslie terrace, Liberty st., northerly.....	151	12″	Clay		236.20
Lester st., Sumner ave. to Vermont st.....	286	12″	Clay		343.74
	279	10″	Clay		
Lexington ave., Chestnut to Massasoit st.....	668	12″	Clay	546.52	
†Massasoit st., easterly..	437	2′-0″x3′-0″	Con.	1,996.91	
					2,543.43

*Sanitary sewer. †Egg shape. **Storm water sewer.

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Leyfred terrace, Belmont ave., northerly	300	18″	Clay		$1,041.08
	317	15″	Clay		
Liberty st., Garden brook to Main st.	118	12″	Clay	$179.19	
Garden brook to Chestnut st	70	1′-6″x1′-7″	Brick		
	172	12″	Cem.		
	644	20″	Clay	2,902.14	
	325	15″	Clay		
	184	12″	Clay		
Chestnut to Webster st.	784	2′- 4″x3′-6″	Brick		
	659	1′-10″x2′-9″	Brick	9,123.49	
	684	2′- 2″x3′-3″	Brick		
Webster to Armory st.	366	3′- 0″x4′-6″	Brick	5,383.15	
	1,282	2′- 2″x3′-3″	Brick		
	317	1′-10″x2′-9″	Brick	2,566.69	
	449	2′- 2″x3′-3″	Brick		
Armory to Roy st.	1,194	24″	Clay		
	1,103	18″	Clay	6,715.67	
	1,447	15″	Clay		
					26,870.33
Lillian st., Oak st., easterly	297	12″	Clay		232.47
Lincoln st., Magazine to Federal st.	823	12″	Clay		676.54
Linden st., Chestnut to Cass st.	470	18″	Cem.		1,475.53
	862	15″	Cem.		
Litchfield st., Belmont ave. to Fairfield st.	159	15″	Clay	335.11	
Garfield st., northerly	69	6″	Clay	7.10	
					342.21
Locust st., York to Mill st.	84	3′-0″x4′- 6″	Brick		
	364	2′-9″x4′-1½″	Brick	6,804.18	
	686	2′-6″x3′- 9″	Brick		
Dickinson st., westerly	197	20″	Clay	617.01	
					7,421.19
Logan st., Collins st., southerly	97	10″	Clay	133.56	
Collins to Ladd st.	183	10″	Clay	188.75	
Ladd st., northerly	88	10″	Clay	67.64	
Granville st., northerly	200	10″	Clay	169.04	
					558.99
Lombard st., Water st., easterly	500	12″	Cem.		382.41
Longfellow terrace, White st., westerly	246	12″	Clay	290.03	
	200	10″	Clay		
southerly towards Belmont ave.	229	10″	Cl	153.84	
					443.87

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Longhill st., submerged	26	18″	Clay		
outlet	290	18″	W'd	$5,387.70	
	28	18″	C-ir.		
Conn. river to Washington boulevard	1,373	24″	Clay	2,086.09	
(See Washington boulevard)	283	2′-4″x3′-6″	Brick	1,989.47	
Washington ave., northerly	399	15″	Clay		
	512	12″	Clay	1,027.66	
	160	10″	Clay		
Sumner ave., southerly	356	8″	Clay	386.61	
Main st. to Sumner ave.	90	2′-0″x3′-0″	Con.	514 35	
	136	24″	Clay		
	265	18″	Clay		
	350	15″	Clay	3,660.86	
	400	12″	Clay		
	777	10″	Clay		
					$15,052.74
Longview st., Leete st., southerly	265	12″	Clay	506.49	
	248	10″	Clay	1,163.38	
					1,669.87
Loring st., Water st., easterly	607	12″	Cem.	733.41	
	40	12″	Clay	48.34	
					781.75
Lowell st., Conn. river to Plainfield st	305	18″	Clay		
	396	15″	Clay		1,063.24
	466	12″	Clay		
	283	10″	Clay		
Lowell st. pumping station	...	....	...		2,991.84
Lyman st., Main to Chestnut st	1,335	2′-0″x3′-0″	Brick	6,113.12	
Chestnut to Spring st	418	15″	Clay	1,793.76	
	302	15″	Cem.	695.83	
					8,602.71
Lyndale st., Belmont ave., northerly	350	15″	Clay		
	300	12″	Clay		952.60
	324	10″	Clay		
Lyons st., I. O., Main st., northerly	261	18″	Clay	389.58	
Worcester st., southerly	319	10″	Clay	440.03	
					829.61
Madison ave., Central st., northerly	250	12″	Clay		737.57
	287	10″	Clay		
Magazine st., Worthington to Lincoln st	682	18″	Cem.		1,267.96
	249	15″	Cem.		

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Magnolia terrace, east side, Sumner to Spruceland ave	620	10″	Clay	$1,233.46	
west side, Sumner to Spruceland ave	621	10″	Clay		
overflow connection between east and west side	62	8″	Clay	26.00	
Washington to Spruceland ave	362	24″	Clay	21.08	
	602	12″	Clay		
					$1,280.54
Main st., Pecousic ave. to Longhill st	191	2′-4″x3′-6″	Con.	1,114.50	
Mill river to Mill st	258	10″	Clay	342.25	
Locust to Mill st	385	15″	Clay	1,926.01	
	394	12″	Clay		
Mill st., southerly	55	15″	Cem.	96.72	
York st. to B. & A. R. R.	56	7′-0″ cir.	Brick	20,812.99	
	1,772	6′-6″ cir.	Brick		
	906	5′-6″ cir.	Brick		
	990	5′-0″ cir.	Brick		
	1,624	3′-4″x5′-0″	Brick	34,453.56	
	864	2′-4″x3′-6″	Brick		
	264	12″	Clay	359.25	
Cypress to Emery st	298	15″	Clay	1,210.56	
	270	12″	Clay		
Emery st., southerly	278	12″	Cem.	389.20	
Emery to Sargeant st	341	24″	Clay	2,840.72	
	442	20″	Clay		
	480	18″	Clay		
	186	15″	Clay		
					63,545.76
Main st., I. O., Chicopee river to Pine st	2,321	2′-4″x3′-6″	Brick	7,654.03	
Pine to Cedar st	500	18″	Cem.	896.63	
	185	15″	Cem.		
	103	12″	Clay	128.49	
Cedar to Lyons st	1,110	2′-0″x3′-0″	Brick	5,068.28	
Chicopee river through private land and Main st. to Beaudry st	699	18″	Clay	1,530.17	
	232	15″	Clay		
	212	10″	Clay		
Parker st., westerly	473	12″	Clay	517.35	
Lyons st., easterly	205	24″	Clay	1,439.14	
	245	18″	Clay		
	129	12″	Clay		
					17,234.09
Malden st., Allen st., southerly	542	15″	Clay		204.59
	291	12″	Clay		
	581	10″	Clay		

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Manchester terrace, White st., southerly	254	15″	Clay		$518.76
Manhattan st., Eastern ave. to Walnut st	290	15″	Clay		
	645	12″	Clay		862.70
	205	10″	Clay		
Manitoba st., White to Blaine st	247	15″	Clay		
	256	12″	Clay		1,037.77
	273	10″	Clay		
Mansfield st., White st. to Kimberly ave	351	18″	Clay		
	251	15″	Clay		1,814.89
	341	12″	Clay		
Maple st., State to Temple st	315	18″	Clay	$675.51	
	....	....	....	51.55	
Park to High st	225	18″	Clay	505.21	
Union st., southerly	515	18″	Cem.	959.13	
	135	12″	Cem.		
Central st. to Avon place	192	24″	Clay	1,417.41	
Central st., southerly	33	18″	Cem.	160.95	
	388	12″	Cem.		
	784	12″	Clay	1,289.58	
Pine st., northerly	195	15″	Cem.	1,093.44	
	522	12″	Cem.		
					6,152.78
Mapledell st., State to Burr st	337	15″	Clay		
	300	12″	Clay		133.34
	388	10″	Clay		
Maplewood terrace, Fort Pleasant ave., easterly	682	15″	Clay		
	329	12″	Clay		22.21
	178	10″	Clay		
Marble st., Main st., easterly	222	18″	Cem.		
	586	15″	Cem.		1,248.12
	242	12″	Cem.		
Marengo park, Belmont ave., easterly	443	15″	Clay		
	612	12″	Clay		117.62
	778	10″	Clay		
Margaret st., Water st., westerly	520	12″	Cem.	540.89	
Water st., easterly	825	12″	Cem.	855.32	
	30	12″	Clay	31.41	
					1,427.62

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Marion st., Bay st., southerly	833	12″	Clay	$944.01	
Chapin st., easterly	94	10″	Clay	25.89	
	319	8″	Clay		$969.90
Market st., State st., northerly	119	10″	Clay	....	
Sanford st., southerly	200	12″	Clay	437.55	
Sanford st. to Harrison ave.	301	15″	Clay	1,197.72	
	350	12″	Clay		
Harrison ave., southerly	154	12″	Cem.	....	
					1,635.27
Marlboro ave., State st. to	300	12″	Clay		
Wilbraham road	449	10″	Clay		555.21
Marlborough st., Bristol st., easterly	160	10″	Clay	101.12	
Middlesex to Suffolk st.	172	10″	Clay	177.34	
					278.46
Mason place, Dickinson st., southerly	200	12″	Clay		
	276	10″	Clay		433.02
Mason st., State to Pease st.	349	15″	Clay		
	359	12″	Clay		746.99
Massachusetts ave., Wilbraham road, southerly	300	15″	Clay		
	300	12″	Clay	1,056.92	
	227	10″	Clay		
Westford circle, northerly	218	12″	Clay		
	489	10″	Clay	47.67	
*Westford circle, southerly	603	12″	Clay	798.34	
**Westford circle, southerly	238	24″	Clay		
	366	18″	Clay	1,897.00	
					3,799.93
Massasoit place, Massasoit st., easterly	381	12″	Clay		....
Massasoit st., Carew st., northerly	709	12″	Cem.	579.69	
	131	10″	Clay	124.62	
Lexington ave., southerly	300	12″	Clay		
	298	10″	Clay	366.86	
Montmorenci st. to Lexington ave.	354	2′-2″x3′-3″	Con.	1,468.20	
†Montmorenci st., northerly across private land to Chapin terrace	377	2′-10″x4′-3½″	Con.	2,758.01	
Pratt st., southerly	149	10″	Clay	218.09	
					5,515.47

*Sanitary sewer. †Elliptical. **Storm water sewer.

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Mattoon st., Chestnut to Salem st.	356	1′-4″x2′-0″	Brick		$778.21
	87	15″	Cem.		
Maynard st., State st. to Shattuck st.	431	15″	Clay	$670.82	
	400	12″	Clay		
†Shattuck st., southerly	581	18″	Clay	2,181.95	
*Shattuck st., northerly	1,029	10″	Clay	741.18	
					3,593.95
McKnight st., Catharine to Sherman st.	255	15″	Cem.	421.42	
	30	15″	Clay	56.78	
Catharine to Bowles st.	141	10″	Cem.	67.27	
	26	10″	Clay	75.32	
Bowles st. to Girard ave.	119	12″	Cem.	81.85	
	263	10″	Clay	233.51	
					936.15
Mechanic st., Water st., westerly	302	12″	Cem.	205.25	
	20	8″	Clay	72.99	
					278.24
Medford st., Birnie ave., easterly	390	12″	Clay		367.29
	183	10″	Clay		
Melrose st., sewer between Hickory and Melrose st.	429	18″	Clay		
Eastern ave. to Walnut st.	263	15″	Clay		
	558	10″	Clay		
Marshall place, Eastern ave. to Walnut st.	415	10″	Clay		1,791.93
	169	8″	Clay		
Cottage ave., Melrose st. to Marshall place	74	12″	Clay		
Meredith st., Belmont ave. to Washington st.	536	12″	Clay		2,162.60
	274	10″	Clay		
Merrick ave., King st., southerly	275	12″	Cem.	48.50	
	24	12″	Clay	29.26	
					77.76
Merwin st., North Main st. to Chestnut st.	774	15″	Clay		52.25
Middlesex st., Wilbraham road to Marlborough st.	296	15″	Clay		
	304	12″	Clay		945.92
	474	10″	Clay		
Milford st., Farnsworth to Athol st.	295	15″	Clay		690.49
Mill river, intercepting sewer, Mill river to Locust st.	370	5′-3″ cir.	Brick	6,066.64	
	691	4′-0″ cir.	Brick		
Locust to Hickory st.	587	4′-0″ cir.	Brick		
	131	3′-6″x5′-3″	Brick		
	1,743	5′-9″ cir.	Brick	42,706.00	
	779	4′-3″ cir.	Brick		
	1,611	3′-3″ cir.	Brick		

*Sanitary sewer. †Storm water sewer.

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
*in Mill and Hickory sts.	833	2'-2"x3'-3"	Brick	$9,355.23	
*Hickory st. to Gunn square brook by northerly shore of Watershops pond	4,495	2'-2"x3'-3"	Brick	45,545.71	103,673.58
Mill st., Main st., easterly	236	8"	Cem.	75.45	
Locust to Pine st	943	2'-6"x3'-9"	Brick	4,764.79	
Knox to Maple st	352	18"	Clay	668.24	
Dickinson st., easterly	325	24"	Clay	651.69	6,160.17
Miller st., Armory st., easterly	598	20"	Clay		
	304	18"	Clay		2,216.18
	300	15"	Clay		
	236	12"	Clay		
Monmouth st., Dorchester st., northerly and easterly	199	12"	Clay	218.15	
	171	10"	Clay	121.75	
Yale st., westerly	64	12"	Clay	45.95	
	278	10"	Clay	281.47	
Berkeley st., northwesterly	350	12"	Clay	235.62	902.94
Monroe st., Hancock st. to Eastern ave	611	18"	Cem.		
	789	15"	Cem.		1,983.29
Eastern ave. to Colton st.	316	12"	Cem.		
Monson ave., Greene st., northerly	200	8"	Clay		....
Montmorenci st., Chestnut to Massasoit st	64	12"	Clay	74.82	
	612	2'-10"x4'-5"	Con.	2,725.07	2,799.89
Montpelier st., Main to Niagara st	297	24"	Clay		1,149.00
Montrose st., State to Burr st	338	15"	Clay		
	217	12"	Clay		75.74
	329	10"	Clay		
Moore st., Plainfield st., westerly	299	12"	Clay		785.36
	435	10"	Clay		
Mooreland st., Carew st., northerly to Van Horn ave	601	18"	Clay		
	301	15"	Clay		1,529.16
	299	12"	Clay		
	212	10"	Clay		

*Elliptical.

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Morgan st., Garden brook	252	12″	Cem.	$199.08	
to Main st.	25	18″	Cem.	48.07	
Garden brook to North st.	634	18″	Clay	1,460.31	
					$1,707.46
Morningside Park, White st., easterly	392	15″	Clay		503.67
Morrill ave., Carew st., northerly	214	10″	Clay		212.00
Morris st., Main st., easterly	915	2′-0″x3′-0″	Brick	2,942.83	
	496	12″	Cem.	359.07	
					3,301.90
Mountainview st., Forest	297	12″	Clay		
Park ave., easterly	297	10″	Clay		28.19
Mulberry st., Maple st.,	426	15″	Clay		
easterly and northerly	270	12″	Clay	885.41	
	629	12″	Cem.	595.59	
	246	10″	Clay	233.59	
west from Ridgewood terrace	144	15″	Clay	....	
					1,714.59
Murray Hill ave., Liberty st., northerly	....	....	Clay		195.06
Myrtle st., Card-factory	107	10″	Clay		
Pond brook, northerly	237	8″	Clay		69.76
Myrtle st., I. O., Main to Worcester st.	377	24″	Clay	1,003.44	
Worcester st., southerly	378	10″	Clay	355.34	
Berkshire st., southerly	180	10″	Clay	189.63	
Hampshire to Essex st.	434	10″	Clay	425.48	
					1,973.89
Narragansett st., Lexington ave., northerly	320	12″	Clay		
	219	10″	Clay	657.47	
Lexington ave., southerly	250	12″	Clay		
	251	10″	Clay	458.65	
					1,116.12
Nelson ave., Greene st., northerly	310	10″	Clay	421.30	
Lebanon to King st.	188	10″	Cem.	143.78	
	67	10″	Clay	110.87	
					675.95
Nelson st., Nursery st., easterly	308	24″	Clay		....
New st., E. Court st., northerly	237	12″	Cem.	307.75	
	33	8″	Clay	14.18	
Dwight st., westerly	164	10″	Clay	272.59	
					594.52
Newbury st., Carew st. to Sherman ave.	1,070	10″	Clay		1,138.70
Newland st., Plainfield st.,	350	18″	Clay		
westerly	349	15″	Clay		2,018.75
	555	12″	Clay		

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Newman st., Knox st.,	174	12″	Clay		$506.69
westerly	127	10″	Clay		
Niagara st., Montpelier to					
Saratoga st	220	18″	Clay	$539.50	
Montpelier to Oswego st.	146	18″	Clay	358.02	
					897.52
Noble st., North Main to					
Chestnut st	514	15″	Clay		1,074.99
Noel ave., Mill to Oakland					
st	204	20″	Clay		
	146	18″	Clay		
	380	15″	Clay	2,512.92	
	486	12″	Clay		
	252	10″	Clay		
Orange st., northerly	30	12″	Clay	32.29	
					2,545.21
Norfolk st., Wilbraham	300	15″	Clay		
rd., southerly	300	12″	Clay	566.08	
	229	10″	Clay	155.85	
					721.93
North st., Ferry st., north-					
erly	148	10″	Clay	223.34	
Carew st., northerly	190	8″	Cem.	84.88	
Church to Grosvenor st.	68	18″	Cem.	157.13	
Morgan to Ringgold st.	198	18″	Clay	876.47	
Osgood to Hebron st	130	18″	Clay		
	165	10″	Clay	426.85	
Bancroft st. to Brookline					
ave	302	18″	Clay	411.55	
Bancroft st., northerly	153	12″	Cem.		
	64	12″	Clay	217.15	
Jefferson ave., northerly.	233	8″	Clay	258.44	
Calhoun st., northerly	256	8″	Clay	109.36	
Waverly to Grove st	362	12″	Clay	302.86	
Harriet st., southerly	86	8″	Clay	....	
Harriet to Cumberland st.	304	10″	Clay	389.10	
					3,457.13
Northampton ave., Wil-					
braham rd., southerly.	1,101	12″	Clay	877.47	
*Gunn square, northerly	126	10″	Clay	118.79	
*Gunn square to King st.	249	12″	Clay		
	202	10″	Clay	340.32	
*Gunn square, southerly.	459	8″	Clay	484.87	
†Gunn square to Beverly	173	18″	Clay		
st	185	12″	Clay	1,168.89	
†Gunn square to King st.	313	24″	Clay		
	322	20″	Clay	2,411.85	
					5,402.19

*Sanitary sewer. † Storm water sewer.

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
North Church ave., Cook's ave., easterly	209	10″	Cem.		
Cook's ave., westerly (for cost see Cook's ave.)	133	10″	Cem.		
No. Main st., Morgan st., southerly	232	8″	Clay	$232.92	
Morgan st., northerly	173	8″	Clay	90.69	
Osgood st., southerly	199	10″	Clay	649.04	
Arch to Osgood st	730	15″	Cem.	713.66	
*Arch st. to Jefferson ave.	185	2′-2″x3′-3″	Brick	974.27	
Jefferson ave. to Grove st.	359	24″	Clay		
	420	20″	Clay	2,568.01	
	285	15″	Clay		
Grove st., northerly	170	12″	Clay	226.45	
Douglas to Harriet st.	551	1′-8″x2′-6″	Brick	1,874.35	
Harriet to Waverly st.	250	24″	Clay	470.75	
Douglas to Eagle st.	326	2′-4″x3′-6″	Brick	1,840.24	
	272	1′-10″x2′-9″	Brick		
Eagle to Walter st.	296	24″	Clay	952.02	
Wason ave. to Walter st.	215	2′-0″x3′-0″	Brick	860.00	
	349	1′-8″x2′-6″	Con.	1,577.72	
	155	24″	Clay	1,291.96	
	204	15″	Clay		
Wason ave., northerly	600	12″	Clay	535.43	
Chicopee line, southerly	106	15″	Clay	184.06	
	201	15″	Clay	812.39	
	199	12″	Clay		
					$15,853.96
Norwood st., Main to Hanover st.	1,051	12″	Clay		1,891.29
Nursery st., Liberty to Franklin st.	694	2′-8″ cir.	Brick	2,350.19	
Franklin st., northerly	587	2′-8″ cir.	Brick	....	
					2,350.19
Oak st., Union to State st.	741	2′-0″x3′-0″	Con.	3,092.11	
Union to Tyler st.	220	18″	Clay	752.00	
	268	15″	Clay		
Walnut to Tyler st.	177	18″	Clay	339.99	
					4,184.10
Oak st., I. O., Chicopee river to Main st.	684	4′-0″ cir.	Con.	4,404.88	
north from Main st.	179	15″	Cem.	637.00	
	171	12″	Cem.		
Main st., southerly	590	2′-2″x3′-3″	Brick	2,345.84	
brick sewer to Hampshire st.	797	24″	Clay	1,652.79	
Hampshire st., southerly	285	18″	Clay		
	300	15″	Clay	1,562.43	
	400	12″	Clay		
					10,602.94

* Elliptical.

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Oak Grove ave., State to Center st.	349	18″	Clay		
	327	15″	Clay	....	
	254	12″	Clay		
Center st., northerly	621	10″	Clay	$294.84	
Bay st., southerly	350	18″	Clay		
	350	15″	Clay	1,381.91	
	301	12″	Clay		
	325	10″	Clay		
					$1,676.75
Oak Grove Park, Center st., westerly	144	10″	Clay		157.99
Oakland st., Belmont ave., southerly	311	10″	Clay	330.77	
Belmont ave. to Dickinson st	895	24″	Clay	2,249.94	
Dickinson to Orange st.	254	24″	Clay		
	350	18″	Clay	1,619.20	
	170	12″	Clay		
	218	8″	Clay	110.79	
Allen to Orange st.	625	18″	Clay		
	304	15″	Clay	1,569.22	
	193	12″	Clay		
	404	10″	Clay		
Sumner ave. to Garfield st.	280	12″	Clay	468.60	
	221	10″	Clay		
					6,348.52
Olive st., Eastern ave. to Logan st.	540	10″	Clay		481.41
Orange st., Bailey square to Euclid ave.	1,119	3′-0″ cir.	Con.	6,744.60	
Euclid ave. to Oakland st	697	24″	Clay	1,973.44	
Oakland st., easterly	583	8″	Clay		
White st., westerly	381	12″	Clay	1,240.87	
	649	10″	Clay		
White st., easterly	924	10″	Clay		9,958.91
Orchard st., Plainfield st., westerly	325	20″	Clay		
	301	15″	Clay		1,061.27
	297	12″	Clay		
	494	10″	Clay		
Orchard st., I. O., South st., southerly	275	12″	Clay		1,123.49
	350	10″	Clay		
Orlando st., Sumner ave., southerly	127	12″	Clay	374.83	
	240	10″	Clay		
Belmont ave., northerly	246	12″	Clay	460.95	
	193	10″	Clay		
					835.78

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Orleans court, Orleans st., westerly	205	8″	Clay		....
Orleans st., Union st., northerly	39	12″	Cem.	$36.23	
	310	12″	Clay	456.19	
	330	10″	Clay		
Tyler st., northerly	188	10″	Cem.	187.74	
Pendleton ave., northerly.	231	12″	Cem.	327.73	
					$1,007.89
Ormond st., Belmont to Sumner ave	275	10″	Clay		252.85
***Osborne terrace,** Page blvd. to Bowles park	1,414	10″	Clay		1,421.18
Osgood st., Garden brook to Main st	257	15″	Clay	547.77	
Garden brook to North st.	340	24″	Clay	2,055.99	
	340	20″	Clay		
					2,603.76
Oswego st., Niagara st., easterly	256	15″	Clay		
	259	12″	Clay		1,309.66
	246	10″	Clay		
Oxford st., Riverview terrace, northerly	63	12″	Clay	....	
	227	12″	Clay	549.19	
	291	10″	Clay		
					549.19
Ozark st., Grand ave., southerly	456	10″	Clay		61.80
***Page boulevard,** St. James ave. to Edendale st	4,817	24″	Clay		22,208.48
	1,830	20″	Clay		
Palm st., Crown st., northerly	320	10″	Clay		351.32
Palmer ave., Locust st., easterly	351	18″	Clay	1,190.78	
	337	15″	Clay		
	14	12″	Cem.	....	
					1,190.78
Park st., Main to Willow st.	395	24″	Clay	1,609.31	
Willow to Maple st	200	24″	Clay	1,431.05	
	.557	18″	Clay		
					3,040.36
Parker st., I. O., Chicopee river to Main st	32	24″	Clay	261.81	
	221	12″	Clay		
Main st., southerly	1,952	24″	Clay	7,255.70	
†Loon pond to B.&A.R.R.	1,227	12″	Clay	1,266.36	
					8,783.87

*Sanitary sewer. † Surface drainage only.

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Parkside ave., Carew st. to Van Horn ave.....	350	18″	Clay		
	350	15″	Clay		$1,198.20
	351	12″	Clay		
	300	10″	Clay		
Parkwood st., Sumner ave., southerly.....	215	12″	Clay		
	204	10″	Clay		70.08
Pasadena st., White st., southerly.....	156	12″	Clay		
	291	10″	Clay	$325.65	
Johnson st., northerly...	358	10″	Clay	282.96	
Johnson st., southerly...	391	10″	Clay	369.66	
					978.27
Pasco road, I. O., Essex st., southerly.....	724	10″	Clay		607.80
Patton st., Garden brook to Main st.....	214	10″	Clay	173.73	
Garden brook, easterly...	352	18″	Clay		
	349	15″	Clay	1,615.37	
	537	12″	Clay		
					1,789.10
Peabody lane, Willow st., westerly.....	292	10″	Clay		332.17
Pearl st., Chestnut to Spring st.....	514	24″	Clay		
	447	20″	Clay	1,792.62	
Spring st., easterly.....	190	1′-6″ cir.	Brick	96.16	
					1,888.78
Pease st., Catharine to Bowles st.....	250	12″	Clay		50.58
Pecousic ave., Mill river to Main st.....	352	2′-8″x4′-0″	Con.	2,285.30	
Main st., southerly.....	549	20″	Clay	1,587.94	
York st., southerly.....	302	18″	Clay		
	300	15″	Clay	1,972.19	
	228	12″	Clay		
					5,845.43
Penacook ave., Governor to Home st.....	106	12″	Clay	76.42	
Wait to Langdon st.....	97	15″	Clay	159.48	
					235.90

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Pendleton ave., Walnut to Hancock st.	287	18″	Cem.		
	524	15″	Cem.	$1,663.94	
	429	12″	Cem.		
Hancock st. to Eastern ave.	600	18″	Cem.		
	793	15″	Cem.	1,494.53	
					$3,158.47
Phoenix st., Liberty st., easterly	236	18″	Clay		
	250	15″	Clay		840.32
	89	10″	Clay		
Phoenix terrace, Kendall ave. to Freeman terrace	300	15″	Clay		
	250	12″	Clay	1,247.23	
	251	10″	Clay		
Freeman terrace to Newbury st.	243	12″	Clay		
	254	10″	Clay	656.15	
					1,903.38
Pierce court, Pendleton ave., southerly	166	10″	Clay		324.50
Pine st., Mill to Cedar st.	740	2′- 6″x3′-9″	Brick		
	1,529	3′- 6″x5′-3″	Brick	13,684.58	
	500	3′-10″x5′-9″	Brick		
Cedar to Walnut st.	62	18″	Cem.		
	884	15″	Cem.	1,809.27	
	631	12″	Cem.		
					15,493.85
Pine st., I. O., Main st., easterly	1,896	24″	Clay		4,170.03
Pine st. court, Pine st., easterly	348	10″	Cem.		266.39
Pineywoods ave., Washington blvd., northeasterly	439	15″	Clay		
	263	12″	Clay	497.39	
Magnolia terrace, westerly	350	10″	Clay	42.93	
Magnolia terrace to Washington road	343	20″	Clay		
	404	15″	Clay	....	
Washington road to Forest Park ave.	341	12″	Clay	....	
					540.32
Plainfield st., Sargeant to Fulton st.	414	18″	Clay		
	537	15″	Clay		
	456	12″	Clay	2,525.13	
	244	10″	Clay		
Washburn to West st.	154	12″	Clay		
	295	10″	Clay	582.80	

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Washburn to Division st..	331	2'-8"x4'-0"	Brick	$1,652.00	
	303	2'-6"x3'-9"	Brick	2,464.93	
	287	2'-4"x3'-6"	Brick	4,853.22	
	294	2'-2"x3'-3"	Brick		
	290	24"	Clay	1,036.73	
Rowland to Division st...	648	2'-2"x3'-3"	Con.	3,548.32	
	299	24"	Clay	1,419.29	
	208	15"	Clay		
Rowland st. to Talcott ave.....	288	24"	Clay	1,354.45	
	299	20"	Clay		
Talcott ave., northerly...	216	10"	Clay	303.96	
Laurel ave. to Demond ave.....	228	12"	Clay	391.86	
Wason to Demond ave...	304	24"	Clay	1,314.80	
	249	20"	Clay		
	53	18"	Clay		
					$21,447.49
Pleasant st., Bay st., southerly.....	296	12"	Cem.		249.74
Plymouth st., Fulton st., easterly.....	375	10"	Clay		196.59
Pomona st., Sumner ave., northerly.....	580	12"	Clay	459.94	
	297	10"	Clay	204.92	
					664.86
***Porter ave.,** St. James ave. to Alpha st.....	438	10"	Clay		1,027.21
Portland st., Birnie ave., easterly.....	251	12"	Clay		351.35
	224	10"	Clay		
Portsmouth st......	212	12"	Clay		348.70
Pratt st., Chestnut to Marvin st.....	350	15"	Clay		869.53
	299	12"	Clay		
Prescott st., Belmont ave., northerly.....	340	10"	Clay		250.22
Prince st., King to Lebanon st.....	329	12"	Cem.		333.15
Princeton st., Bay to Amherst st.....	103	18"	Cem.	289.08	
	689	18"	Clay	724.15	
	151	15"	Clay	177.72	
Yale to Vassar st.....	665	12"	Cem.	74.75	
St. James ave. to Cornell st.....	298	12"	Cem.	195.52	
					1,461.22

*Sanitary sewer.

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Priscilla st., White st.. westerly	220	10″	Clay		$185.84
Private ways and private lands:					
*Albemarle st., easterly to Brook channel	135	3′-0″ cir.	Con.		1,591.20
Armory Hill sewer from Armory st., through private grounds east of Armory st. to Worthington st	150	2′-5″x3′-7½″	Brick		
	900	2′-8″x4′- 0″	Brick		5,318.04
	249	2′-1″x3′-1½″	Brick		
Butler st., southerly	296	15″	Clay		978.39
Card-factory Pond, Woodworth ave., westerly between High and State sts.	751	12″	Cem.	$408.75	
in front and around High school	492	24″	Clay	848.26	
High school to State st...	88	24″	Clay	192.35	
					1,449.36
in front and around High School of Commerce and on private lands easterly	142	15″	Clay		
	144	12″	Clay		....
	226	10″	Clay		
Cemetery brook, Morris st., easterly, north of Central st	174	24″	Clay		569.59
Chester to Hancock st....	218	8″	Clay		....
Garden brook sewer, north from Liberty st. to B. & M. R. R. via Arch st. about 300 feet east of Main st	2,936	5′-6″ cir.	Brick		
	766	5′-0″ cir.	Brick	47,594.81	
	1,303	4′-6″ cir.	Brick		
	236	3′-0″x4′-6″	Brick		
Worthington st., northeasterly to Lyman st., then via Railroad land to Armory st	3,274	4′-7¼″ cir.	Brick	29,919.41	
	952	4′-1″ cir.	Brick		
					77,514.22

*Storm water.

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
East Springfield sewer, northerly and easterly from Albany st. through private land to Chicopee road	1,920	3'-9" cir.	Con.		
	760	2'-6" cir.	Con.		$17,567.09
	160	2'-10"x4'-3" Elliptical	Con.		
*Gunn square brook sewer, from Hickory st., through private land to Albemarle st.	1,585	15"	Clay		1,401.20
Hickory to Melrose st. (see Melrose st.)	....	18"	Clay		....
Jefferson ave., passageway in rear of lots on south side	135	2'-0"x3'-0"	Brick	....	
	518	12"	Cem.	$364.84	
					364.84
Main to Dale st., between Hubbard ave. and William st.	655	12"	Cem.		441.92
Passageway, Ferry to Liberty st., 80 ft. east of Main st.	210	12"	Clay		402.70
Potter place, State st., northerly	396	15"	Clay		
	301	12"	Clay		....
	274	10"	Clay		
Sewer in ave. Hampden st. southerly, near Water st.	111	12"	Clay		147.14
Springfield st. via Atwater Glen to Springfield st.	677	3'-6" cir.	Brick		
	598	3'-3" cir.	Brick		
	389	4'-3" cir.	Brick		
	1,292	3'-0" cir.	Brick		14,614.89
	40	2'-0" cir.	Brick		
	16	2'-10"x4'-3'	Brick		
Prospect st., Chestnut to Massasoit st.	218	18"	Clay		
	199	15"	Clay	623.53	
	196	12"	Clay		
Massasoit st., easterly	325	12"	Clay		
	423	10"	Clay	847.52	
					1,471.05

* Sanitary sewer.

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Pulaski alley, I. O., Parker st., easterly	225	12″	Clay		$320.24
Pynchon st.	950	2′-0″x3′-0″	Brick		3,108.02
Quebec st., I. O., Lyons st., easterly	464	15″	Clay		1,364.77
	242	12″	Clay		
Queen st., Walnut to Hancock st.	655	12″	Cem.		758.86
Quincy st., Oak to Stebbins st.	860	12″	Cem.	$651.15	
Hancock to Stebbins st.	522	12″	Cem.	549.58	
Hancock st. to Eastern ave.	637	18″	Cem.	1,766.39	
	765	15″	Cem.		
Colton st. to Eastern ave.	208	10″	Clay	156.87	
					3,123.99
Railroad st., Water st. underpass, easterly	168	12″	Clay		290.55
	208	12″	Clay		
Randolph st., Maplewood terrace, easterly	[illegible]	12″	Clay		22.96
	[illegible]	10″	Clay		
Ranney st., Wilmont st., southerly	85	10″	Clay	96.04	
Wilmont st., northerly	200	10″	Clay	151.76	
Johnson st., northerly	301	12″	Clay	426.13	
	264	10″	Clay		
Kensington ave., northerly	206	10″	Clay	149.18	
					823.11
Rapalus ave., I. O., Parker st., southerly	442	12″	Clay		448.05
Raymond ave., Carew st., northerly	277	10″	Clay		217.32
Redlands st., Page boulevard to Oklahoma st.	1,058	10″	Clay		2,420.48
Reed st., State st., southerly	219	12″	Clay		244.74
	362	10″	Clay		
Revere st., White st., southerly	750	20″	Clay		99.05
	250	10″	Clay		
	209	8″	Clay		
Richelieu court, Adams st., southerly	160	12″	Clay		602.61
	315	10″	Clay		
Richelieu place, Richelieu court, easterly	100	8″	Clay		....

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Ridgewood place, Mulberry st., northerly....	400	12″	Clay	$29.46	
	76	10″	Clay	101.95	
					$131.41
Ridgewood terrace, Mulberry st., westerly.....	226	10″	Clay	....	
Union st., southerly.....	137	10″	Clay	162.13	
					162.13
Rimmon ave., Green lane to Weaver ramble.....	859	18″	Clay	....	
Weaver ramble, northerly.....	200	12″	Clay	....	
Hamburg st. to Chicopee line.....	251	12″	Clay	787.19	
	254	10″	Clay		
	170	8′	Clay	132.97	
					920.16
Ringgold st., North to Chestnut st.....	436	15″	Clay		1,226.47
	312	12″	Clay		
Ripley place, St. James ave., southerly.....	230	10″	Cem.		163.48
Rittenhouse terrace, Sumner ave. to Davisston ave.....	250	18″	Clay		
	249	15″	Clay		1,109.44
	249	12″	Clay		
	128	10″	Clay		
Riverview st., Riverview terrace to Chase ave...	63	10″	Clay	....	
	310	10″	Clay	354.50	
Forest Park ave., southerly.....	299	10″	Clay	239.39	
					593.89
Riverview terrace, Fort Pleasant ave., easterly.	298	15″	Clay		36.21
	322	12″	Clay		
	105	10″	Clay		
Rochelle st., Wilbraham road, southerly.....	424	18″	Clay		1,188.31
	200	15″	Clay		
	260	12″	Clay		
	175	10″	Clay		
Rockland st., Sumner ave., northerly.....	549	12″	Clay		717.51
Rogers ave., I. O., Main st., southerly.....	97	15″	Clay		356.39
	152	12″	Clay		
	40	10″	Clay		

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Roseland st., Plainfield st., westerly	350	18″	Clay		
	350	15″	Clay		$1,530.97
	241	12″	Clay		
Rowland st., Conn. river to North Main st., including 630′ in Douglas st..	579	5′-3″ cir.	Brick		
	51	1′-8″x2′-6″	Brick		
	1,247	6′-6″ cir.	Brick		32,489.36
	1,330	6′-0″ cir.	Brick		
Rupert st., White st. to Kimberly ave	241	18″	Clay		
	152	15″	Clay		614.13
Ruskin st., Eleanor road, southerly	231	12″	Clay		
	233	10″	Clay		422.04
Rutland st., Wilbraham road to State st	199	8″	Clay		147.15
Rutledge ave., Main st., easterly	574	24″	Clay		126.40
Sachem st., Orange st., southerly	30	12″	Clay	$35.31	
Dickinson st., northerly..	330	10″	Clay	368.85	
					404.16
Sackett place, southerly of Worthington st	128	12″	Clay		186.80
Salem st., Pearl st., south and east	283	18″	Cem.		
	99	15″	Cem.		879.36
	290	12″	Cem.		
***Sanford st.**	536	3′-2″x4′-9″	Brick		4,014.47
Saratoga st., Niagara to Richelieu st	233	15″	Clay		
	229	12″	Clay	1,023.97	
	129	10″	Clay		
Niagara to Main st	172	12″	Clay	419.93	
					1,443.90
***Sargeant st.**, Fulton to Main (cost shown under Clinton st.)	920	4′-6″x6′-9″	Brick		....
School st., Union to Mulberry st	560	15″	Clay	620.95	
Union st., northerly	258	10″	Clay	286.32	
					907.27
Scott st., White to Pomona st	300	12″	Clay		
	347	10″	Clay		468.68
Searle place, Walnut st., easterly	178	10″	Clay		231.61

* Elliptical.

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Seventh st., Fulton to Main st.	830	12″	Cem.		$908.09
Sewer in avenue (see private way).					
Sewer (see private ways).					
Shamrock ave., Orange st., northerly	30	12″	Clay		26.58
Sharon st., Garden brook to Main st.	209	15″	Clay	$945.67	
	151	12″	Clay		
Garden brook, easterly	301	20″	Clay	2,355.50	
	300	18″	Clay		
	231	15″	Clay		
	232	12″	Clay		
					3,301.17
†Shattuck st., Carlisle Brook to College st.	1,074	4′-6″ cir.	Con.	19,833.35	
**Willard ave., easterly	212	8″	Clay	75.40	
**Maynard st., easterly	126	10″	Clay	....	
	164	8″	Clay		
**College st., easterly	96	8″	Clay	....	
					19,908.75
Sheffield st., Shillingford st., northerly	209	10″	Clay		234.97
Shefford st., Glenwood sewer southerly towards Springfield st.	293	12″	Clay	628.75	
	350	10″	Clay		
easterly towards Springfield st.	200	12″	Clay	790.42	
	225	10″	Clay		
*Springfield st., easterly.	75	3′-2″x4′-9″	Con.	1,013.45	
*Springfield to Caseland st.	399	4′-9″x3′-2″	Con.	4,928.50	
					7,361.12
Sheldon st., Birnie ave. to N. Main st.	311	12″	Clay		18.49
	317	10″	Clay		
Sherman ave., Kendall ave. to Newbury st.	550	15″	Clay		
	550	12″	Clay		1,684.17
	280	10″	Clay		
Sherman st., Bay to Clarendon st	175	12″	Cem.	571.12	
Bay to McKnight st.	443	12″	Cem.		
State to McKnight st.	301	18″	Clay	1,314.14	
	301	15″	Clay		
	544	12″	Clay		
					1,885.26

*Elliptical. †Storm water sewer. **Sanitary.

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost.	
Shillingford st., Eastern ave. to Sheffield st.....	640	12″	Clay		$464.74
Silver st., Armory st., easterly.....	302	15″	Clay		
	297	12″	Clay		733.99
	251	10″	Clay		
Smith st., Knox to Dorne st.	199	12″	Clay	$196.57	
Dorne st., westerly.....	107	10″	Clay	136.68	
					333.25
Somerset st., Dickinson st., westerly.....	317	15″	Clay		
	305	12″	Clay		1,220.56
	420	10″	Clay		
Sorrento st., Sumner ave., northerly.....	325	12″	Clay	376.55	
Grenada terrace, northerly	367	10″	Clay	302.93	
					679.48
South st., I. O., Healey ave. to East st.....	151	12″	Clay	479.71	
	221	10″	Clay		
Healey to Orchard ave...	396	12″	Clay	771.30	
					1,251.01
Spencer st., Sumner ave., southerly.....	282	12″	Clay		487.45
	315	10″	Clay		
Spring st., south from Lyman st.....	281	15″	Cem.		
	130	12″	Cem.		
Worthington to State st..	470	18″	Cem.	2,592.14	
	640	15″	Cem.		
	644	12″	Cem.		
Worthington st., northerly	132	12″	Clay	87.28	
Worthington to Summer st.....	183	5′-0″ cir.	Brick	1,498.24	
	*49	4′-3″x6′-0″	Brick		4,177.66
Springfield st., Atwater terrace, to northerly end of Shefford st.....	892	20″	Clay		
	360	18″	Clay		
	413	15″	Clay	3,546.39	
	286	12″	Clay		
	437	10″	Clay		
†Glenwood sewer southerly to Shefford st.....	135	3′-2″x4′-9″	Con.	1,824.12	
Glenwood sewer northerly to Hamburg st.....	1,294	24″	Clay	3,889.98	
					9,260.49

*Segmental. † Elliptical.

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Springfield st. and Glenwood (see private ways)					
Spruce st., Central st., northerly	600	12″	Cem.		$609.90
Spruceland ave., Firglade ave., westerly	158	10″	Clay	$268.87	
Magnolia terrace, westerly	67	8″	Clay	....	
Beechwood ave., easterly	240	10″	Clay	395.58	
Beechwood ave., westerly	300	10″	Clay	621.89	
Longhill st., easterly	450	10″	Clay	410.40	
					1,696.74
Stafford st., Armory st., westerly	402	10″	Clay		367.88
State st., Water st., westerly	70	12″	Cem.	45.27	
	91	12″	Cem.	71.19	
	82	12″	Clay	83.01	
Water to Main st	907	18″	Cem.	1,199.78	
Main to Dwight st	636	18″	Cem.	1,433.50	
*Dwight st. to High school	29	2′-8″x4′-0″	Brick		
	265	2′-2″x3′-3″	Brick	4,897.66	
	417	2′-0″x3′-0″	Brick		
At High school, connecting old with new	54	24″	Clay	161.88	
High school to Elliott st.	305	2′-0″ cir.	Brick	469.65	
High school to Walnut st.	726	2′-0″x3′-0″	Con.		
	306	2′-2″ cir.	Con.	6,442.79	
	1,440	2′-0″ cir.	Con.		
connecting new with old	54	18″	Clay		
Walnut to Oak st	250	18″	Clay		
	253	15″	Clay	1,678.37	
	348	12″	Clay		
Federal st., easterly	695	2′-0″ cir.	Brick	1,062.40	
	130	12″	Clay	274.35	
Oak to Buckingham st.	2,110	18″	Cem.	2,848.93	
Hancock to Sherman st.	1,147	3′-4″x5′-0″	Brick	13,586.64	
Sherman to Mason st	492	3′-0″x4′-6″	Brick		
Mason to Andrew st	726	3′-0″x4′-6″	Brick	10,818.12	
Andrew st. to Oak Grove ave.	937	2′-10″x4′-3″	Brick		
east from Oak Grove ave. to Cortland st	548	2′-4″x3′-6″	Brick		
	283	2′-2″x3′-3″	Brick	5,056.93	
	352	2′-0″x3′-0 ′	Brick		
Cortland st., easterly	355	24″	Clay		
	112	18″	Clay	4,616.11	
	3,399	12″	Clay		
					54,746.58

* Elliptical.

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
State st. terrace, Shattuck ave., southerly	254	10″	Clay		$217.57
Stearns square (West roadway), Bridge st., northerly	172	12″	Clay	$205.83	
Worthington st., southerly	201	12″	Clay	523.75	
					729.58
Stearns square (East roadway), Bridge st., northerly	167	8″	Clay	67.00	
Worthington st., southerly	148	12″	Clay	342.98	
					409.98
Stebbins st., Union to State st	300	12″	Clay	596.89	
	293	10″	Clay		
Union st., southerly	151	10″	Clay	196.80	
					793.69
†Sterling st., Armory to Hamburg st	917	2′-10″x4′-3″	Con.		14,176.97
Sterns terrace, Central st., northerly	393	12″	Clay		605.10
***Stevens st.,** Page boulevard to Eureka st	1,164	10″	Clay		1,248.43
St. James ave., State st., northerly	191	18″	Clay		
	467	12″	Clay	906.01	
	123	10″	Clay		
Bay st. to Ripley place	91	12″	Cem.	135.23	
Florida st. to Ripley place	469	12″	Cem.	500.89	
Florida st., northerly	417	18″	Cem.	1,073.90	
	300	12″	Cem.		
Clarendon to Westminster st	248	15″	Cem.	404.60	
Clarendon st., northerly	138	8″	Clay	64.82	
Dartmouth to Harvard st.	385	2′-0″x3′-0″	Brick	2,738.53	
Harvard to Princeton st.	528	24″	Clay	1,799.94	
Princeton st., northerly	308	18″	Clay		
	249	15″	Clay	965.55	
	57	12″	Clay		
Chicopee road to Page boulevard	127	24″	Clay	396.52	
***Page boulevard to Porter ave**	315	18″	Clay	790.13	
					9,776.12
Stockbridge st., Main st., easterly	777	18″	Cem.		1,101.77
Stockman st., Carew st. to Newbury st	879	20″	Clay		
	260	12″	Clay		2,931.18
	256	10″	Clay		

*Sanitary sewers. †Elliptical.

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Stratford terrace, White st., easterly	190	12″	Clay		$593.35
	314	10″	Clay		
Suffolk st., Wilbraham road, southerly	300	15″	Clay	$294.06	
	300	12″	Clay	596.52	
	795	10″	Clay		
					890.58
Sullivan st., Armory st., easterly	395	12″	Clay		64.10
***Summer st.,** Spring to Armory st.	44	4′-3″x6′-0″	Brick		
	†1,344	4′-2″x6′-3″	Brick		24,048.88
	†1,093	2′-10″x4′-3″	Brick		
	†750	3′- 8″x5′-6″	Brick		
Summit st., Worthington to Federal st.	204	12″	Clay		744.48
	263	10″	Clay		
Sumner ave., Fort Pleasant ave. to Longhill st.	448	12″	Clay	815.24	
	358	10″	Clay		
Fort Pleasant ave. to Randolph st.	673	2′- 0″x3′-0″	Brick		
Randolph st. to Washington road	360	1′-10″x2′-9″	Brick		
Washington road to Forest Park ave.	360	1′- 8″x2′-6″	Brick	7,968.46	
Forest Park ave. to Greenleaf st.	367	1′- 6″x2′-3″	Brick		
Greenleaf st. to Belmont ave	355	20″	Clay		
	851	18″	Clay		
	736	15″	Clay	2,915.88	
	272	12″	Clay		
	426	10″	Clay		
Belmont ave., easterly	100	8″	Clay	37.49	
†Dickinson to White st.	2,219	2′-8″x4′-0″	Brick	11,531.37	
White st. to Castle ave	565	2′-2″x3′-3″	Brick	2,391.46	
	1,110	2′-2″x3′-3″	Con.	2,355.03	
	739	15″	Clay	1,918.96	
	879	12″	Clay		
					29,933.89
Sumner terrace, Sumner ave., northerly	252	12″	Clay		462.38
	220	10″	Clay		
Sunapee st., White st. to Blaine st.	376	15″	Clay		
	297	12″	Clay		1,245.54
	337	10″	Clay		

*Segmental. †Elliptical.

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
*Sycamore st., Acorn to Bay st.	899	8″	Clay		$352.24
Sylvan ave., Belmont ave. to Fountain place	294	20″	Clay	$1,272.55	
	251	18″	Clay		
	249	15″	Clay		
Fountain place, southerly	151	12″	Clay	266.92	
					1,539.47
Symonds ave., Worthington to Bridge st. (includes cost of Bond pl.)	300	15″	Cem.		696.89
Taft ave., Sylvan to Woodlawn st.	247	10″	Clay		201.65
Talcott ave., Fisk ave. to Plainfield st.	362	15″	Clay		549.57
	316	12″	Clay		
Taylor st., Main to Chestnut st.	330	20″	Clay	3,747.24	
	321	18″	Clay		
	197	15″	Clay		
	50	12″	Clay	51.79	
	341	12″	Cem.	463.50	
					4,262.53
Temple st., Maple to School st.	304	15″	Clay	1,127.60	
	300	12″	Clay		
	345	10″	Clay		
outlet into High school sewer	169	15″	Clay	171.71	
					1,299.31
Tenth st., Garden brook, easterly	300	18″	Clay		1,293.88
	302	15″	Clay		
	421	12″	Clay		
	4	8″	Clay		
Terrence st., Union to State st.	374	12″	Clay	565.26	
	313	10″	Clay		
	48	10″	Cem.	34.02	
					599.28
Thomas st., Birnie ave., easterly	451	10″	Clay		364.91
Thompson st., Worthington st., southerly	603	12″	Cem.	638.27	
St. James ave. to Bay st.	703	15″	Cem.	886.56	
State to Bay st.	852	12″	Cem.	757.02	
					2,281.85

*Sanitary sewer.

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Thorndyke st., Sumner ave., southerly.....	353	12″	Clay		$975.10
	398	10″	Clay		
Tracy st., Franklin st., southerly.....	14	10″	Clay	$15.48	
	367	10″	Clay	222.88	
					238.36
Trafton road, Dickinson st., westerly.....	351	18″	Clay		
	460	15″	Clay	1,102.19	
	140	12″	Clay		
†Somerset st. to Forest Park.....	518	10″	Clay	984.67	
					2,086.86
Trenton st., Dickinson st. to Commonwealth ave.	146	10″	Clay		125.74
Trillium st., White to Greenbrier st..	345	10″	Clay		234.62
Trinity terrace, Sumner ave. to Morningside park	300	12″	Clay		533.91
	416	10″	Clay		
Tyler st., Oak to Orleans..	419	15″	Clay	769.02	
Orleans to Hancock st....	298	15″	Clay	653.33	
	171	12″	Clay		
	492	12″	Clay	571.84	
Hancock st. to Eastern ave.....	601	18″	Cem.	815.47	
	795	15″	Cem.	718.71	
Eastern ave., easterly....	251	10″	Cem.	199.75	
					3,728.12
Underwood st., Franklin st., northerly	483	10″	Clay		567.41
Union st., submerged outlet.....	165	24″	Wood	1,604.45	
	48	24″	C. Iron	391.23	
Conn. river to Main st...	1,610	3′-4″x5′-0″	Brick	8,806.18	
	53	2′-0″x3′-0″	Brick		
Main to Oak st	*718	3′-2″x4′-9″	Con.		
	951	2′-8″ cir.	Con.	13,447.59	
	1,021	2′-3″ cir.	Con.		
	1,504	2′-4″x3′-6″	Con.	7,638.58	
Oak to Orleans st.....	404	15″	Cem.	467.96	
Hancock to Stebbins st...	261	2′-0″x3′-0″	Brick	2,321.08	
	335	1′-10″x2′-9″	Brick		
Stebbins to Orleans st....	428	20″	Clay	788.30	
Hancock st. to Eastern ave.....	600	18″	Cem.	1,535.40	
	800	15″	Cem.		
Eastern ave., easterly....	248	10″	Clay	182.22	
					37,182.99
Van Horn place, Carew st., northerly ..	311	10″	Clay		541.21

* Elliptical. †Storm water sewer.

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Vassar st., Harvard st., northerly	550	12″	Cem.		$153.37
Ventura st., Sumner ave., northerly	351	10″	Clay	$289.51	
Grenada terrace, northerly	341	10″	Clay	254.12	
					543.63
Vermont st., Converse to Pomona st	258	15″	Clay		
	267	12″	Clay	558.98	
	225	10″	Clay		
Converse st., easterly	314	12″	Clay	307.55	
					866.53
Vernon st., Water st., easterly	589	15″	Cem.	772.37	
Main st., westerly	216	12″	Cem.	310.68	
	50	12″	Clay	328.78	
					1,411.83
Villa parkway, Wilbraham road, southerly	299	15″	Clay		
	302	12″	Clay	785.41	
	453	10″	Clay	515.02	
					1,300.43
Vine st., Main to Fulton st.	697	12″	Cem.		688.75
Vinton st., Liberty to Franklin st	357	12″	Clay	393.47	
	262	10″	Clay	252.13	
					645.60
Virginia st., Dickinson st. to Trafton road	348	15″	Clay		
	301	12″	Clay		770.73
	344	10″	Clay		
Wait st., Armory st. to Penacook ave	500	24″	Clay		
	470	20″	Clay		2,422.92
	250	18″	Clay		
	249	15″	Clay		
Walden st., Dickinson st., easterly	166	8″	Clay	174.46	
Commonwealth to Belmont ave	296	10″	Clay	168.26	
					342.72
Walker st., Water st., westerly	650	12″	Clay		688.37
Walnut court, Walnut st., westerly	211	10″	Clay		188.15
Walnut st., south from State st	69	1′-6″x1′-8″	Brick	85.23	
north from Charter ave	292	10″	Clay	418.30	
Union st. to Charter ave	279	12″	Cem.	482.50	
Union to Oak st	558	12″	Clay	792.64	
	17	12″	Cem.	20.50	
Cedar to Pine st	1,142	2′-0″x3′-0″	Brick	4,986.58	
Pine to Oak st	254	18″	Cem.	383.04	

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Hancock to Cedar st....	784	15″	Cem.	$1,289.38	
Hancock st., southerly...	180	12″	Cem.		
north from Manhattan st.	249	10″	Clay	238.06	
Florence st., northerly...	53	8″	Cem.	27.12	
Hickory to Florence st....	1,026	12″	Clay	1,006.69	
					$9,730.04
Walter st., Birnie ave. to North Main st.....	385	12″	Clay		422.74
Waltham ave., Wilbraham road, southerly.....	911	12″	Clay		1,107.98
Wareham st., Grand ave., southerly.....	419	10″	Clay		21.24
Warner st., Fort Pleasant ave. to Longhill st.....	508	12″	Clay	....	
	198	10″	Clay		
	89	10″	Clay	51.88	
					51.88
Warriner ave., Locust st., easterly.....	448	12″	Clay		463.97
Washburn st., Conn. river to B. & M. R. R.....	1,758	7′-0″ cir.	Brick		21,678.46
Washington boulevard, Longhill st. to Pineywoods ave.....	304	2′-4″x3′-6″	Brick	5,032.68	
	823	2′-2″x3′-3″	Brick		
	308	18″	Clay	868.79	
	200	15″	Clay		
	242	12″	Clay		
	330	10″	Clay		
					5,901.47
Washington road, Sumner ave., southerly.....	460	10″	Clay	166.40	
Pineywoods ave., northerly.....	141	10″	Clay	149.77	
	281	10″	Clay	....	
					316.17
Washington st., Dickinson st. to Commonwealth ave.....	306	12″	Clay	531.14	
	215	10″	Clay		
Itendale to Woodlawn st.	259	12″	Clay	363.85	
	208	10″	Clay		
					894.99
Wason ave., Conn. river to Plainfield st.....	451	3′-10″x5′-9″	Brick		
Plainfield st. to Fisk ave.	1,051	3′- 4″x5′-0″	Brick		
Fisk to Birnie ave.....	634	3′ 2″x4′-9″	Brick		16,642.62
Birnie ave. to North Main st.....	247	2′- 0″x3′-0″	Brick		

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Water st., Gardner to Loring st.	474	1′-10″x2′-9″	Brick	$1,219.79	
Loring st., northerly	345	12″	Cem.	237.38	
Union to Margaret st.	721	2′- 0″x3′-0″	Brick	2,367.61	
Union st., northerly	868	18″	Cem.		
Elm to State st.	275	18″	Cem.	508.75	
Elm to Pynchon st.	43	2′- 0″x3′-0″	Brick	198.00	
	498	2′- 6″x3′-6″	Brick	2,949.29	
Pynchon st., northerly	257	18″	Cem.	404.44	
	329	15″	Cem.	460.60	
	61	12″	Cem.	132.69	
Worthington st., southerly	209	10″	Clay	444.76	
Worthington to Hampden st.	327	15″	Cem.	511.50	
Hampden to Railroad st.	250	12″	Clay	497.29	
					$9,932.10
Water st. underpass, Cypress to Railroad st.	359	18″	Clay		....
	236	15″	Clay		....
Waverly st., North Main to Chestnut st.	473	20″	Clay		1,268.03
	487	10″	Clay		
Weaver ramble, Rimmon ave., westerly and northerly	480	12″	Clay		....
Webster st., Liberty to Franklin st.	601	12″	Clay		505.99
Welcome place, Bay st., northerly	238	8″	Clay		17.84
Wellesley st., St. James ave. to Cornell st.	236	12″	Clay		540.30
	224	10″	Clay		
Wellington st., Wilbraham road, southerly.	287	15″	Clay		
	244	12″	Clay		46.33
	291	10″	Clay		
Wendell place, Main st., easterly	458	15″	Clay		134.39
* **West st.,** Connecticut river to Plainfield st.	635	15″	Clay		1,867.65
	511	12″	Clay		
West Alvord st., Sumner ave. to Daviston ave.	153	24″	Clay		
	268	20″	Clay		
	550	18″	Clay		1,546.17
	300	15″	Clay		
	412	12″	Clay		
Westernview st., Forest Park ave., easterly	468	12″	Clay		539.60
	138	10″	Clay		

* Storm water.

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Westford ave., Wilbraham road, southerly	300	15″	Clay		
	300	12″	Clay	$676.23	
	350	10″	Clay		
*Westford circle to King st.	541	12″	Clay	454.36	
†Westford circle, northerly	107	12″	Clay	91.09	
†Gunn square, southerly.	112	12″	Clay	164.52	
					$1,386.20
***Westford circle,** Albemarle st. to Westford ave.	786	12″	Clay	1,457.52	
*Westford ave., southeasterly to Westford circle.	194	12″	Clay	301.11	
†Albemarle st. to Northampton ave	433	3′-0″	Seg. Blk.		
	602	2′-6″	Seg. Blk.	8,472.45	
	39	3′-0″	Con.		
					10,231.08
Westminster st., Bay to State st.	300	15″	Clay		
	300	12″	Clay	791.24	
	201	10″	Clay		
St. James ave., southerly.	773	12″	Cem.	794.10	
					1,585.34
White st., Allen to Orange st.	747	24″	Clay	1,829.93	
	674	20″	Clay	1,729.93	
	274	18″	Clay		
Orange st. to Dawson ave.	388	15″	Clay	389.27	
	292	15″	Clay	300.87	
Gordon st. to Dawson ave.	192	10″	Clay	237.91	
Gordon st., southerly	690	12″	Clay	746.74	
	207	8″	Clay	84.45	
Sumner ave. to Stratford ter.	1,266	24″	Clay	2,104.72	
Sumner ave. to Trillium st.	1,028	20″	Clay		
	166	18″	Clay	2,300.75	
	329	12″	Clay		
Belmont ave. to Trillium st.	233	24″	Clay		
	191	12″	Clay	1,189.60	
	210	10″	Clay		
Belmont ave. to Dwight road	1,178	2′-8″x4′-0″	Con.	5,324.32	
Dwight road to Longmeadow line	179	24″	Clay	550.34	
					16,788.83

*Sanitary sewer. † Storm water.

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Whiting st., Plainfield st., westerly	299	18″	Clay		
	297	15″	Clay		$834.16
	196	12″	Clay		
Whitney place, Water st., westerly	450	12″	Cem.		402.41
Whittier st., Sumner ave. to Longfellow terrace	301	18″	Clay		
	299	15″	Clay		
	301	12″	Clay		1,290.11
	221	10″	Clay		
Wight place, Water st., easterly	175	10″	Clay		290.41
Wigwam place, Dickinson st., easterly	324	10″	Clay		463.06.
Wilbraham ave., Wilbraham road, southerly	1,125	12″	Clay	$1,117.21	
Alden to Beverly st	999	10″	Clay	1,253.01	
	1,180	8″	Clay		
†King st., southerly	318	12″	Clay	707.63	
†King st., northerly	299	18″	Clay	1,596.36	
	270	12″	Clay		
†Beverly st., southerly	117	10″	Clay	251.60	
†Beverly st., northerly	262	10″	Clay	512.68	
					5,438.49
Wilbraham road, State st., easterly	248	12″	Cem.	157.79	
State st. to Northampton ave.	1,451	2′-0″x3′-0″	Brick	6,373.06	
Northampton ave. to Bristol st	472	2′-6″x3′-9″	Brick		
	476	2′-4″x3′-6″	Brick		
	478	2′-2″x3′-3″	Brick		
	473	2′-0″x3′-0″	Brick	9,055.82	
	254	1′-10″x2′-9″	Brick		
	256	1′-8″x2′-6″	Brick		
Bristol st., easterly	263	20″	Clay	994.25	
	405	12″	Clay		
*Watershop Pond, westerly	204	24″	Clay	836.60	
	318	20″	Clay		
					17,417.52
Wilcox st., Water st., easterly	548	15″	Cem.	1,000.75	
	327	12″	Cem.		
Water st., westerly	463	12″	Cem.	313.82	
					1,314.57
Willard ave., State st., northerly	282	18″	Clay		
	300	15″	Clay	785.26	
	241	12″	Clay		

* Surface drainage only. † Storm water sewer.

SEWER SYSTEM.—*Concluded.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
**Shattuck st., southerly	389	12″	Clay	$880.18	$1,665.44
William st., Water to Main st.	875	12″	Cem.	918.26	
	32	12″	Clay	125.28	
Main to Dale st.	351	12″	Clay	931.32	
	311	10″	Clay		
Water st., westerly	76	15″	Cem.	609.09	
	425	12″	Cem.		
					2,583.95
Willow st., Cross to State st.	413	12″	Clay	791.42	
Cross to Park st.	265	12″	Clay	378.17	
Union to Park st.	216	18″	Cem.	325.32	
Union st. to Hubbard ave.	219	10″	Clay	204.39	
					1,699.30
Wilmont st., Dickinson to Ranney st.	349	18″	Clay		
	450	15″	Clay		1,766.54
	386	12″	Clay		
Winchester st.	424	12″	Clay		431.64
Windsor st., Knox st., westerly	308	12″	Clay		560.76
	266	10″	Clay		
Winter st., Chestnut st., easterly	212	20″	Clay		1,019.92
Winthrop st., Main st., easterly	52	18″	Cem.	220.81	
	141	15″	Cem.		
	310	15″	Clay	1,045.76	
	230	12″	Clay		
					1,266.57
Wolcott st., Armory st., northerly	220	10″	Clay	....	
	206	10″	Clay	192.49	
Liberty st., northerly	138	10″	Clay	214.59	
					407.08
*Woodbine ave., Mill river intercepting sewer to Baxter ave.	1,071	10″	Clay		993.00
†Woodlawn st., Belmont ave. to Carlton st.	760	2′-4″x3′-6″	Con.		5,967.03
Woodside terrace, Belmont ave., northerly	451	10″	Clay	373.16	
Forest Park ave., northerly	307	10″	Clay	53.48	
	64	6″	Clay		
					426.64
Woodworth ave., State st., southerly	199	12″	Clay		614.25
	131	10″	Clay		
Worcester ave., Plainfield st. to Fisk ave.	854	15″	Cem.		295.09

* Sanitary sewer. † Egg shape. ** Storm water sewer.

SEWER SYSTEM.—*Continued.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
Worcester st., I. O., Myrtle to Chestnut st.	4	24″	Clay	$945.80	
	290	20″	Clay		
	382	2′-0″x3′-0″	Brick	1,283.00	
Chestnut to Holly st.	670	1′-10″x2′-9″	Brick	2,398.09	
Oak st., easterly	275	12″	Clay	542.93	
	212	10″	Clay		
Pine st., easterly to Lyons st.	546	20″	Clay	2,735.88	
	224	18″	Clay		
	601	15″	Clay		
	249	10″	Clay		
†In Worcester st. and across private land near B. & A. R. R. bridge	250	18″	Clay	906.76	
Worthington st., submerged outlet	194	24″	Wood	1,883.04	$8,812.46
	22	24″	C. Iron	176.25	
*Conn. river to Main st.	1,038	5′-7″x7′-0″	Brick	33,510.28	
*Main to Dwight st.	821	5′-4″x7′-0″	Brick		
Dwight to Garden brook.	566	4′-0″x6′-0″	Brick		
Garden brook to Spring st.	738	4′-3″ cir.	Brick	4,361.35	
Spring st., branch north.	35	5′-0″ cir.	Brick		
Spring st., branch south.	47	2′-0″x3′-0″	Brick		
Spring st., easterly	40	18″	Cem.	614.35	
	242	15″	Cem.		
	251	12″	Cem.		
Autumn st., westerly	113	12″	Cem.	118.78	
near Sacketts ave.	145	10″	Cem.	111.47	
West brook, easterly	329	15″	Clay	1,110.54	
	217	12″	Clay		
West brook to Autumn st.	231	15″	Clay	727.56	
Sacketts ave., westerly	98	12″	Clay	207.28	
Sacketts to Kibbe ave.	337	12″	Cem.	335.37	
Kibbe ave. to Federal st.	794	15″	Clay	826.90	
Kibbe hollow, westerly to Magazine st.	167	18″	Clay	381.28	
Kibbe hollow to Bowdoin st.	833	2′-2″ cir.	Con.	3,644.54	
near Magazine to Bowdoin st.	125	2′-8″x4′-0″	Con.	21,193.17	
	123	2′-8″x4′-0″	Brick		
	354	2′-1″x3′-1½″	Brick		
Bowdoin st. to St. James ave.	359	3′-4″x7′-2″	Brick		
	1,307	3′-4″x6′-9″	Brick		
					69,202.16

*Elliptical. † Storm water sewer.

SEWER SYSTEM.—*Concluded.*

NAME OF SEWER	Length in Feet	Size	Material	Cost	
X Court, Dickinson st., westerly and southerly.	34	10″	Clay	$84.24	
	192	10″	Clay	19.05	
					$103.29
Yale st., Dartmouth to Princeton st.....	350	24″	Clay		
	359	18″	Clay	1,770.13	
	233	15″	Clay		
Princeton st., northerly..	712	12″	Clay	524.54	
					2,294.67
York st......	1,203	7′-0″ cir.	Brick		13,988.16
Totals.....	10,289				$1,936,531.86

NOTE.—Sewers constructed by the city on private land or ways are indexed under Private ways.

RECAPITULATION BY SIZES.

DESCRIPTION	Length in Feet	Sizes	Material
Segmental	93	6′- 0″x4′- 3″	Brick and cem. mortar.
Elliptical shaped	1,038	5′- 7″x7′- 0″	" " "
" "	821	5′- 4″x7′- 0″	" " "
" "	1,095	4′-10″x7′- 3″	" " "
" "	1,949	4′- 8″x7′- 0″	" " "
" "	1,170	4′- 6″x6′- 9″	" " "
" "	1,040	4′- 4″x6′- 6″	" " "
" "	2,340	4′- 2″x6′- 3″	" " "
" "	1,746	3′- 8″x5′- 6″	" " "
" "	830	3′- 4″x5′- 0″	" " "
" "	536	3′- 2″x4′- 9″	" " "
" "	819	3′- 0″x4′- 6″	" " "
" "	1,093	2′-10″x4′- 3″	" " "
" "	2,506	2′- 8″x4′- 0″	" " "
" "	5,778	2′- 2″x3′- 3″	" " "
" "	417	2′- 0″x3′- 0″	" " "
Egg shaped	566	4′- 0″x6′- 0″	" " "
" "	1,131	3′-10″x5′- 9″	" " "
" "	1,074	3′- 8″x5′- 6″	" " "
" "	3,512	3′- 6″x5′- 3″	" " "
" "	359	3′- 4″x7′- 2″	" " "
" "	1,307	3′- 4″x6′- 9″	" " "
" "	8,787	3′- 4″x5′- 0″	" " "
" "	1,056	3′- 2″x4′- 9″	" " "
" "	2,877	3′- 0″x4′- 6″	" " "
" "	953	2′-10″x4′- 3″	" " "
" "	364	2′- 9″x4′- 1½″	" " "
" "	2,391	2′- 8″x4′- 0″	" " "
" "	4,818	2′- 6″x3′- 9″	" " "
" "	498	2′- 6″x3′- 6″	" " "
" "	150	2′- 5″x3′- 7½″	" " "
" "	8,573	2′- 4″x3′- 6″	" " "
" "	8,688	2′- 2″x3′- 3″	" " "
" "	603	2′- 1″x3′- 1½″	" " "
" "	18,874	2′- 0″x3′- 0″	" " "
" "	4,921	1′-11″x2′- 9″	" " "
" "	2,432	1′- 8″x2′- 6″	" " "
" "	917	1′- 6″x2′- 3″	" " "
" "	669	1′- 4″x2′- 0″	" " "
Circular	3,017	7′-0″	" " "
"	3,019	6′-6″	" " "
"	1,330	6′-0″	" " "
"	1,743	5′-9″	" " "
"	3,842	5′-6″	" " "
"	949	5′-3″	" " "
"	2,257	5′-0″	" " "
"	3,274	4′-7½″	" " "
"	1,762	4′-6″	" " "

RECAPITULATION BY SIZES.—*Continued.*

DESCRIPTION	Length in Feet	Sizes	Material
Circular	3,362	4′-3″	Brick and cem. mortar.
"	952	4′-1″	" " "
"	2,399	4′-0″	" " "
"	385	3′-9″	" " "
"	677	3′-6″	" " "
"	2,209	3′-3″	" " "
"	2,549	3′-0″	" " "
"	2,072	2′-8″	" " "
"	1,520	2′-0″	" " "
"	190	1′-6″	" " "
Elliptical	416	2′-10″x4′- 3″	Brick-concrete.
"	245	3′- 0″x4′- 6″	" "
Segmental	60	5′- 0″x2′- 1″	Concrete.
Elliptical	385	4′-10″x7′- 3″	"
"	399	4′- 9″x3′- 2″	"
"	270	4′- 6″x3′- 0″	"
"	1,085	4′- 2″x6′- 3″	"
"	928	3′- 2″x4′- 9″	"
"	612	2′-10″x4′- 5″	"
"	4,261	2′-10″x4′- 3″	"
"	1,178	2′- 8″x4′- 0″	"
"	1,934	2′- 4″x3′- 6″	"
"	41	1′-10″x2′- 9″	"
Egg shaped	477	2′- 8″x4′- 0″	"
"	1,365	2′- 6″x3′- 9″	"
"	951	2′- 4″x3′- 6″	"
"	4,717	2′- 2″x3′- 3″	"
"	1,994	2′- 0″x3′- 0″	"
"	349	1′- 8″x2′- 6″	"
Circular	1,083	5′-0″	"
"	1,004	4′-9″	"
"	1,074	4′-6″	"
"	478	4′-3″	"
"	684	4′-0″	"
"	2,365	3′-9″	"
"	1,588	3′-0″	"
"	1,940	2′-8″	"
"	760	2′-6″	"
"	1,484	2′-3″	"
"	1,139	2′-2″	"
"	1,440	2′-0″	"
"	41,317	24″	Clay pipe.
"	31,410	20″	" "
"	48,448	18″	" "
"	80,193	15″	" "
"	155,361	12″	" "
"	151,578	10″	" "
"	14,233	8″	" "

RECAPITULATION BY SIZES.—*Concluded.*

DESCRIPTION	Length in Feet	Sizes	Material
Circular	351	6″	Clay pipe.
"	20,706	18″	Cement pipe.
"	31,383	15″	" "
"	54,257	12″	" "
"	4,278	10″	" "
"	651	8″	" "
"	120	24″	Cast-iron pipe.
"	28	18″	" "
"	726	24″	Wood pipe.
"	290	18″	" "
"	433	3′- 0″	Segment block.
"	602	2′- 6″	" "
Miscellaneous shapes	919		Brick and cem. mortar.
Total	810,289		

GENERAL CLASSIFICATION, 1919.

	Feet	Miles
Brick	137,218	25.988
Brick-concrete	661	.125
Concrete	36,045	6.826
Clay pipe	522,891	99.032
Cement pipe	111,275	21.073
Cast-iron pipe	148	.028
Wood pipe	1,016	.193
Segment block	1,035	.196
Total	810,289	153.461

COLLECTION.

Mains (Everything but House and Catch Basin Connections).

		For sewage only.	For sewage and surface water.	For surface water only.
1.	Lineal feet brick,		137,218	
2.	" " concrete,		35,163	1,543
3.	" " segment block,			1,035
4.	" " pipe,	26,133	595,176	14,021
5.	" " pipe extended during year,	832	2,009	3,284
6.	Number of inverted siphons,		1	
8.	Method of flushing: By connections with the water system.			
9.	Method of cleaning: By scrapers and flushing.			
11.	Number of direct connections with water mains for flushing,	15	643	
12.	Number of flushings of entire system during year,		25	
13.	Cost of flushing, per mile,		$28.95	
14.	Cost of cleaning, per mile,		$32.34	
17.	Number of storm overflows,		16	
18.	Method of ventilation: By manholes and wellholes and through house stacks.			

HOUSE CONNECTIONS.

1.	By whom made:	By Sewer Department as far as street line.
2.	Sizes,	6"
3.	Number made during year,	215
4.	Lineal feet laid during year,	6,000

GENERAL.

Total cost of collecting mains to date, ... $1,936,531.86
Proportion of cost of system paid for by abutters in fees, . . 40%+

Methods of assessing abutters and rate of assessment:—

Entrance fee of fifty (50) dollars for dwelling houses.

For buildings used for business purposes two (2) cents per square foot of area covered by the building for the two lower stories, and an additional charge of one half (½) cent per square foot of area covered by the building for each additional story.

SUMMARY OF SEWERAGE STATISTICS.

(In form recommended by Sanitary Section of Boston Society Civil Engineers.)

For the Year Ending December 1, 1919.

SPRINGFIELD, MASSACHUSETTS.

GENERAL.

Population by Assessors' Estimate,		135,000
Total area of city or town,		33.1 square miles
Area served by sewerage system,		10.33 square miles
Collection system,	For sewage only,	4.948 miles
	For sewage and surface water,	145.370 miles
	For surface water only,	3.143 miles

Method of disposal,—Gravity flow to Connecticut River.

REPORT

OF

WASTE DISPOSAL DIVISION

FOR FISCAL YEAR ENDING NOVEMBER 30, 1919.

Mr. Robert P. Marsh, Superintendent of Streets and Engineering, Springfield, Mass.

DEAR SIR:—I herewith submit a report of the work performed by the Waste Disposal Division, Department of Streets and Engineering, for the year ending November 30, 1919.

EXPENSE.

	Total Cost.	Amount Collection.	Unit Cost.
Ashes collection	$102,929.36	32,616 loads	$3.155
Maintaining dumps	5,394.95		
Rubbish collection	32,004.20	7,556 loads	4.235
Garbage collection	47,841.99	8,238.984 tons	5.60
Garbage sold	7,655.86	7,655.86 tons	1.00
Cost of maintaining Logan Street Incinerator, November 30, 1918, to July 7, 1919			$7,778.22
Receipts from sale of salvaged waste			3,162.89
Net cost of operating incinerator			$4,615.33

ASHES COLLECTION.

Following your suggestion, special effort has been made during the past year to systematize more thoroughly the work of the Division, especially the investigations of complaints. In addition, a number of innovations have been introduced. One which might be mentioned as having

produced noticeable improvement, is the requirement that all collectors shall wear a badge provided by the department. The badge number and the employee to whom it is issued is a matter of record. This requirement fixes the responsibility on the individual and has greatly reduced the number of complaints, which oftentimes are found to be the result of neglect on the part of our collectors.

By reason of the overcrowded conditions in certain tenement districts, and in the congested parts of the business sections, it has been found necessary to make more frequent collections than in previous years. The benefits derived from these collections are indisputable and may be summarized briefly as follows: The lessening of fire hazards and the consequent reduction in fire loss; the improvement of sanitary conditions in general, and the elimination of objectionable conditions in alleyways and back yards. The more frequent collections have reduced the number of complaints received by the division during the summer months.

During the past year special effort has been made to obtain the most effective methods of so conducting the work on the various dumps as to be of the least inconvenience and annoyance to the public. The former too frequent complaints, due to the unattractive appearance of these dumps, have been almost entirely done away with and the results obtained seem to have been satisfactory to the public. By this method land is reclaimed, long hauls avoided, and the cost of collections materially decreased.

RUBBISH.

During the summer a contract was entered into with Messrs. De Stefano and Bianchi to dispose of all the rubbish delivered to the Logan Street Incinerator. This contract has been most satisfactory and has greatly reduced the cost of handling waste material.

The incinerator at the West Street yard has not been in operation during the past year. The rubbish formerly delivered at this plant is now destroyed by fire at the North End dump; the results, however, have not been entirely satisfactory as the smoke from the burning of paper and other waste material is objectionable. This smoke is often the cause of complaints from the citizens living in the immediate vicinity of these fires. The solution of this difficulty would be to either contract for the operation of the West Street Incinerator or to include this waste material with the deliveries to the Logan Street Incinerator.

GARBAGE.

An attempt has been made in handling the work of the past year to assist the farmers by permitting them to utilize, in so far as possible, the type of equipment most adaptable to the conditions encountered on country roads. This resulted in a tendency to increase the amount of garbage that each farmer was able to haul, also in a measure served to do away with the unfavorable appearance presented by a various assortment of wagons transporting garbage through our public streets. Arrangements are now being formulated whereby it is hoped that the department will be able to dispose of all the garbage collected by the city to a contractor who will be equipped to meet our city teams at convenient points, and exchange an empty wagon for a loaded one. Recent studies indicate that this method of disposal is the one that is best adapted for the requirements of the City of Springfield.

One of the greatest difficulties encountered in handling the garbage problem is the fact that the private collectors are not controlled or regulated. These private collectors at the present time collect about one-fifth of the total amount of garbage produced. As a result our teams are required to cover the same streets in which private collectors operate. This duplication of effort means that the cost per ton for the work is unnecessarily high and results in many unfair complaints of negligence on the part of our collectors when the private collectors fail to give regular and dependable service. It is to be hoped that in the near future some action will be taken in the matter and the department be given the authority to correct this condition, which has proven to be both unsanitary and costly.

PUBLICITY.

It has been the object of this division to disseminate information covering its functions and operations through the medium of improvement associations and other civic bodies, either by interviews or by correspondence with their officials. In addition a code of rules governing the separation of household waste, receptacles to be used for same, and other information relative to the work, has been printed and distributed in some instances throughout entire sections of the city. On January 22 a schedule was inserted in the newspaper explaining the order in which the collections were to be made and the size of containers which should be used.

In conclusion it gives me great pleasure to call your attention to the co-operation of the foremen and men to whose efforts any success attained

by the division is largely due. Finally, I desire to extend to you our thanks for your earnest support during the past year. We assure you that without your co-operation it would have been impossible for this division to accomplish whatever results it may have achieved.

Respectfully submitted,

EDWARD G. BARNES,
Deputy Superintendent of Waste Disposal.

REPORT

OF

STREET LIGHTING DIVISION

FOR THE FISCAL YEAR ENDING NOVEMBER 30, 1918.

Mr. Robert P. Marsh, Superintendent, Department of Streets and Engineering, Springfield, Mass.

DEAR SIR:—For the last two years the increase in street lighting has been kept down to a very small figure. During 1919, the net increase in lamps connected was twenty-four arc lamps and two incandescents.

A test has been carried on at the corner of Dwight and State streets to try out different methods of special illumination for those corners at which traffic officers are stationed. I recommend serious consideration as to the advisability of adopting some such method of special lighting at the more important corners where congestion occurs. I believe that if this were done it would largely do away with the slowing down of traffic which occurs at that time of the year when it is dark during the rush hours.

For the past two years considerable study has been given to the question of a more suitable type of lighting for our residence streets. As a result of this study there has been developed by this division a special lighting unit designed to meet our conditions. This unit embodies the best lighting practice and at the same time has an appearance which is unique and pleasing. I am of the opinion that the adoption of such a plan would make possible a great improvement in the lighting of the residence streets with little or no extra expense. I recommend that a small number of these units be constructed and placed on one of our streets so as to give an actual demonstration of whether or not the idea is practical for use.

I wish to again emphasize the importance of proper street lighting. On the whole the lighting of this city will stand comparison with that of any other city, but there is much that needs to be done. For the past two years few new lamps have been added. At the same time, the city

has been growing as fast as ever and there should be an unusually great growth in the coming year or two.

A very good illustration of the effect of street lighting is afforded by a certain American city where a reduction in lighting was followed by a crime wave. While we are in no danger of such an experience in this city, it should be borne in mind that failure to keep up with growing needs of a city is practically the same as making a reduction.

STREET LIGHTING DATA.

Number of arcs connected overhead, November 30, 1919.....	491
Number of pendant arcs connected underground, November 30, 1919.....	1354
Number of inverted arcs all underground, November 30, 1919...	63
Number of incandescents connected overhead, November 30, 1919	380
Number of incandescents connected underground, November 30, 1919.....	92
Price: Pendent arcs.....	$70.00
Inverted arcs.....	75.00
Overhead incandescents.....	15.00
Underground incandescents.....	20.00

Type of arc: 5 ampere, 400-watt General Electric Magnetite Arc with high efficiency electrodes in medium Alba globes.

Inverted arcs: 5 ampere, 400-watt General Electric Magnetite Arc in medium Alabaster polycase globe.

Type of incandescents: 80-watt series Tungstens with radial wave reflectors.

Hours per year: 4,000 for all lamps.

Current generated: Partly by Brush Arc machines; partly by rectifiers.

Inspection: Every light inspected twice each night by regular inspectors, besides police reports.

EXPENDITURES YEAR BY YEAR.

		Per Cent Increase Over Preceding Year.
1910	$96,908.49	7.32
1911	104,246.23	7.57
1912	111,485.16	6.94
1913	123,358.47	2.08*
1914	117,555.11†	3.25
1915	122,602.70	4.29
1916	132,645.06	8.19
1917	137,896.60	3.97
1918	140,897.77	2.18
1919	144,330.45	2.44

*13 months' bills were paid in 1913 and this was taken into consideration in figuring percentage of increase.

†In 1914 the salary of the Deputy Superintendent was charged to administration but in this table it is added to the street lighting account for purposes of comparison.

Respectfully submitted,

WM. E. HODGE,

Deputy Superintendent Street Lighting.

DEPARTMENT OF CHARITIES.

BOARD OF

OVERSEERS OF THE POOR

FOR 1919.

HON. ARTHUR A. ADAMS, *Chairman.*

HENRY P. NORRIS, *Vice Chairman,*	*Term expires April 1, 1920.*
WILLIAM J. LEONARD, M.D.,	*Term expires April 1, 1921.*
J. STUART KIRKHAM,	*Term expires April 1, 1921.*
WILLIAM R. THACKER,	*Term expires April 1, 1922.*

REPORT

OF THE

BOARD OF OVERSEERS OF THE POOR

FOR THE

YEAR ENDING NOVEMBER 30, 1919.

To the City Council:—

The following report is submitted for your consideration:—

The total expenditure for the department was $141,541.76, an increase over last year of $27,394.72.

The total collections were $49,166.20, of which amount $40,845.82 was turned into the General Funds and $8,320.38 was transferred to our funds.

The net expenditure was $100,695.94, which was an increase of $18,903.03 over last year.

Items of appropriation, receipts and expenditure will be found in statistical tables annexed.

The question naturally arises, why this increased expenditure? The answer is, that while there has been general prosperity and plenty of work, the cost of provisions, shoes, clothing, fuel and everything that enters into the family budget has steadily increased, and the much quoted "High Cost of Living" has affected this department the same as it has the general public.

The increase in Outdoor Relief was $15,538.60 due to the above-mentioned causes and further to the fact that the influenza epidemic left numerous widows and children who have required practically full support.

An interesting feature in connection with the numbers aided in 1919 is the fact that the number of families aided for the first time was 91 less than in 1918, while the number of persons in these families was 1,087—

an increase of 265—showing that large families have been added to the list of beneficiaries.

The increased expenditure at the Almshouse ($11,699.43) is also due to extra cost of supplies, extra nurses required for influenza patients, and increases in the salaries of employees, which has been necessary to secure their services.

The expense of administration, which includes salaries of office force, city physician, and miscellaneous expenses in 1918, was $8,694.50. In 1919 it was $10,593.54.

OUTDOOR RELIEF.

The expense in 1918 and 1919 was as follows:—

	1918.	1919.
Disbursed direct to poor by Agent	$39,214.24	$55,281.82
Paid to hospitals in Springfield	4,708.92	4,092.29
Paid to cities and towns for Springfield poor	2,087.05	2,300.52
Paid to state institutions	1,160.35	1,034.53
	$47,170.56	$62,709.16

We have previously mentioned the reasons for the increased expenditure, and would add that further increase may be expected on account of the growth of the city, and also on account of the extra demands upon this department. The idea of the present day is enlargement of the scope of public relief and welfare work.

There are many factors entering into the cause of dependency; among them are desertion of family, and neglect of parents by sons and daughters who have attained their majority, and consequently feel that they have no further legal obligation to assist them—a mistaken idea. Several cases of this nature have been brought before the court in accordance with the provisions of Chapter 163, Acts of 1915 (an act relative to the support of destitute parents), and they have been compelled to contribute to the support of their parents.

Complaints for desertion have been made under the Uniform Desertion Act (Chapter 456, Acts of 1911) and good results obtained. Men have been placed on probation on condition that they pay a weekly sum to the probation officer, which is in turn paid to the dependent family. Failure to comply with the order of the court entails a term in the House of Correction or the Concord Reformatory, and fifty cents per day is paid to the family for every day's work performed by the offender. The law, which was greatly needed, was a wise one and has operated to reduce expense for support of deserted families.

ALMSHOUSE.

The total number of inmates was 446. The average daily number was 119. The average weekly cost was $8.18. In 1918 it was $7.43.

The overhead expense, heating, lighting, repairs, etc., is not affected by the number of inmates and when apportioned among a smaller number operates to increase the weekly cost.

Expense for furniture, general and special repairs, was $4,647.72 against $1,662.09 in 1918.

The special repairs were a new sidewalk from the street to the main building costing $800, and changes in the heating system of the Isolation Hospital to make it conform to the rest of the system. While these changes were not an improvement to the Almshouse proper, they were placed in our charge, were supervised by us, and the cost, $1,090, is included in Almshouse expenditure. The expense incurred is justified by the saving in fuel which has resulted.

The buildings need painting on the outside, and the surface of the driveway should be hardened.

The hospital accommodations are taxed to full capacity a greater part of the time, and additional room may be necessary in the near future.

The City Physician made 341 visits to the institution during the year.

The products of the farm were as follows:—

40	bushels peas at $2.00	$80.00
30	bushels string beans ar $1.50	45.00
40	bushels shell beans at $2.00	80.00
20	bushels lima beans at $2.00	40.00
	Sweet corn	60.00
30	bushels cucumbers	30.00
20	bushels summer squash	20.00
500	lbs. Hubbard squash	10.00
22	bushels table beets	22.00
6,320	lbs. carrots at $30.00 per ton	94.80
520	bushels potatoes at $1.50	780.00
2,000	lbs. cabbage at 2 cents	40.00
23½	tons of mangels at $20.00	470.00
32½	tons hay at $30.00	975.00
43,571	qts. milk at 10 cents	4,357.10
4,458	lbs. pork	1,141.26
	Ice sold	300.00
	Ensilage	175.00
		$8,720.16

AID TO MOTHERS WITH DEPENDENT CHILDREN.

(Chapter 763, Acts of 1913)

Aid given under this Act amounted to $20,315.88, an increase of $3,518.40.

The number of families receiving mothers' aid at the close of the year in this city was 54, in which there were 260 persons.

There were two non-resident families consisting of 7 persons being aided under this Act at the expense of Springfield. These families require practically full support. The law states that "if such mothers are fit to bring up their children the aid shall be sufficient to enable the mothers to bring up their children properly in their own homes."

DEPARTMENT OF SOCIAL WELFARE.

Various attempts are being made throughout the country to reduce dependency, and the work of prevention, as well as curative work, has been demonstrated by the Department of Social Welfare.

Welfare work by this department was begun in May, 1916, and has continued since. It is of particular value in the oversight of mothers' aid cases, which under the law require frequent visitation, and quarterly reports to the State authorities.

Perhaps the most interesting of the department's activities is the granting of relief in the home in the form of mothers' aid. The theory underlying these allowances is—that children are the state's most valuable asset; that the state's duty, as well as its selfish interest, is to see that all of them secure encouragement for their growth into useful and healthy adult life. Careful reports on these cases are made by the Welfare Nurse.

The department's procedure in granting aid of any kind is as follows: It investigates as thoroughly and sympathetically as it can any family applying for aid.

If the indications are that the mother can bring her children up well for the community, then the visitor tries to develop all possible resources within the family, as well as to organize the aid of outsiders interested in it, to the end that there shall be no unnecessary use of public funds which might deprive other families needing relief.

Other duties performed by the Welfare Nurse are: visiting the poor in their homes, caring for the sick, and in many ways ministering to their wants. These duties are of especial value in constructive work.

The City Physician and the Welfare Nurse co-operate in their work and the results are most satisfactory.

We have mentioned in a previous report the fact that "as far as we are aware, there is no other city in the state which employs a person in the same capacity," and we feel that in this field we are leading the way which others will follow.

The Department of Social Welfare has received most hearty co-operation from the Board of Health through its dispensary, its school nurses and inspectors, also from the Union Relief Association, Visiting Nurse Association, Hampden County Children's Aid Society, Teachers' Club, the children of the public schools and the Police Department, especially through the women police officers.

HOSPITALS IN SPRINGFIELD.

Expenses in the various hospitals in Springfield were as follows:—

Mercy Hospital	$1,954.81
Springfield Hospital	2,115.36
Wesson Memorial Hospital	11.41
Home Hospital	10.71
	$4,092.29

There has been an increasing demand for minor operations for school children—for removal of adenoids and tonsils. Many of these cases are reported to this department and the expense has been paid from our funds. Notwithstanding these extra demands and expense on account of influenza, there has been a decrease in hospital expenses of $616.63.

While the rates in these hospitals have been raised from time to time, the amount paid to them has not varied greatly for the past five years. The hospital connected with the Almshouse enables us to keep this expense at a minimum.

WAYFARERS' LODGE.

The number of tramps lodged was 775, which is less than the average.

Caring for tramps in this manner is expensive, but many citizens and former officials have thought it desirable that the Lodge be continued in operation, on the supposition that tramps who would ordinarily come to this city know that they are obliged to work and therefore go elsewhere. No doubt there is some weight to this contention but general business conditions also operate to increase or decrease the number of men who roam from place to place claiming to be in search of work.

Very few local men have accepted work at the Lodge during the past year. The price of wood continues to be high, but there has been a good demand.

The financial statement is as follows:—

EXPENDITURES.

Salaries	$1,600.50	
Wood	2,563.73	
Miscellaneous	690.28	
		$4,854.51

RECEIPTS.

From sale of wood	$2,540.05	
Value of wood delivered to the poor	855.00	
Bills receivable	456.25	
	$3,851.30	
Balance, net expense of running Lodge	1,003.21	
		$4,854.51

Respectfully submitted,

HENRY P. NORRIS,
WM. R. THACKER,
J. STUART KIRKHAM,
WM. J. LEONARD,
Overseers of the Poor.

STATISTICS

RECEIPTS AND TRANSFERS.

	Receipts.	Transfers.	
From appropriation			$125,032.33
From additional appropriations			10,100.00
From reserved encumbrance:—			
Heating contract for Isolation Hospital.			1,090.00
Various cities and towns:—			
Almshouse care $2,286.36			
Outside relief 3,034.75			
	$5,321.11		
The Commonwealth, for temporary aid, care of sick and transportation:—			
Almshouse care $3,586.89			
Outside relief 24,694.19			
	28,281.08		
Isolation Hospital, for lighting, heating, ambulance service, and ice		$8,310.38	
Transfer from reserved encumbrance		10.00	
			8,320.38
Individuals for care at hospitals and aid reimbursed:—			
Almshouse care $3,418.86			
Outside relief 69.22			
	3,488.08		
Sale of farm products	1,215.50		
Sale of wood	2,540.05		
	$40,845.82		$144,542.71

EXPENDITURES.

For the support of persons at the Almshouse	$61,226.25
Installation of heating apparatus at the Almshouse by special contract	1,090.00
Outdoor relief, not including hospital expenses	57,582.34
The support of patients in the local hospitals	4,092.29
The State Infirmary	329.38
The Massachusetts Hospital School	705.15
Salaries	10,593.54
Automobile, running expense	544.48

Miscellaneous expenses	$523.82
Wayfarers' Lodge	4,854.51
	$141,541.76
Balance unexpended	1,000.95
Cash advanced by Treasurer	2,000.00
	$144,542.71

ALMSHOUSE.

Number of persons in Almshouse December 1, 1918	131
Number admitted during the year	315
Total number of inmates	446
Number discharged	326
Number remaining November 30. 1919	120
Average number of inmates	119

OUTDOOR RELIEF.

The total number aided was:—

Having a settlement in the city	1,119
Having a settlement elsewhere	243
Having no settlement	926
	2,288

The number of families aided was:—

Having a settlement in the city	308
Having a settlement elsewhere	64
Having no settlement	276
	648

The number of families aided for the first time was:—

Having a settlement in the city	137
Having a settlement elsewhere	41
Having no settlement	178
	356

The number of persons aided for the first time was:—

Having a settlement in the city	455
Having a settlement elsewhere	150
Having no settlement	482
	1,087

EXPENSES OF OUTDOOR RELIEF.

(Including hospital aid.)

Having a settlement in the city	$36,121.06
Persons having a settlement elsewhere	5,099.91
Persons having no settlement	21,488.19
	$62,709.16

The total number of persons aided during the year was 2,734.

Forty-six persons have been sent to the State Infirmary at Tewksbury.

Seven hundred seventy-five tramps were lodged during the year.

Forty-eight notices were received from various cities and towns and the state of aid rendered to persons whose settlement was claimed in this city.

The City Physician made 403 visits to the poor in their homes.

INVENTORY.

Almshouse:—	
Furniture, fixtures and farm tools	$9,594.90
Provisions and supplies	13,627.60
Horses, cows and other live stock	3,295.00
Office:—	
Furniture	627.75
Wayfarers' Lodge:—	
Wood	118.50
Furniture, fixtures and supplies	853.30
Horse and vehicles	240.00
	$28,357.05

STATEMENT OF EXPENDITURES IN 1918–1919.

OUTDOOR RELIEF.

	Cash.	Transportation.	Fuel.	Provisions.	Clothing.	Medicine and Medical Attendance.	Cities and Towns.	Burials.	State Infirmary, Tewksbury.	Mass. Hospital School, Canton.	Springfield Hospital.	Mercy Hospital.	Home Hospital.	Wesson Hospital.	Totals.
December..	$1,388.50	$73.66	$394.77	$1,400.47	$278.28	$100.40	.....	$35.00	.....	$174.29	.....	.....	.....	.....	$3,845.37
January....	1,758.29	109.12	629.04	1,632.99	173.77	46.05	$220.88	15.00	.....	.....	.....	.....	.....	.....	4,585.14
February...	1,487.33	76.42	687.75	1,932.92	$ 66.94	[125.13	161.12	30.00	.....	.....	$75.50	$591.72	.....	.....	5,234.83
March.....	1,609.38	157.83	553.40	1,968.90	451.95	71.40	231.04	45.00	.....	219.43	.....	.....	.....	.....	5,308.33
April.....	1,683.36	280.14	167.80	1,949.94	266.14	129.90	64.86	136.50	$249.52	.....	368.86	.....	$10.71	.....	5,307.73
May.....	1,930.72	93.12	26.70	2,097.49	328.38	148.15	449.93	20.00	.....	.....	.....	475.20	.....	.....	5,569.69
June.....	1,842.46	208.87	6.00	2,150.22	183.71	126.87	6.86	.....	.....	208.00	396.00	.....	.....	$11.41	5,140.40
July.....	2,083.67	55.54	.....	2,308.18	92.10	82.10	409.63	83.00	79.86	.....	247.50	.....	.....	.....	5,441.58
August.....	1,796.92	146.78	12.00	772.78	241.40	111.97	25.00	45.00	.....	.....	197.50	553.51	.....	.....	3,902.86
September..	1,876.77	60.08	24.00	3,124.48	141.21	70.75	38.00	10.00	.....	103.48	209.50	.....	.....	.....	5,658.22
October....	2,183.05	6.00	18.00	923.80	470.44	94.60	113.57	55.00	.....	.....	220.00	.....	.....	.....	4,084.46
November..	1,921.39	148.16	483.75	4,186.92	422.42	138.40	579.63	15.00	.....	.....	400.50	334.38	.....	.....	8,630.55
	$21,561.84	$1,415.72	$3,003.21	$24,449.09	$3,116.74	$1,245.72	$2,300.52	$489.50	$329.38	$705.15	$2,115.36	$1,954.81	$10.71	$11.41	$62,709.16

STATEMENT OF EXPENDITURES IN 1918–1919.—CONTINUED.

ALMSHOUSE.

	Maintenance.	Salaries.	Furniture and Repairs.	Totals.
December	$3,610.07	$1,832.80	$776.95	$6,219.82
January	1,899.97	1,591.82	830.77	4,322.56
February	1,722.48	1,407.59	368.53	3,498.55
March	2,264.16	1,573.77	610.80	4,448.73
April	2,212.26	1,434.17	305.57	3,952.00
May	2,849.84	1,548.05	42.97	4,440.86
June	7,868.82	1,505.22	203.12	9,577.16
July	5,260.76	1,628.27	73.27	6,962.30
August	3,799.63	1,543.87	180.64	5,524.14
September	2,399.95	1,529.41	27.79	3,957.15
October	1,926.34	1,575.51	918.13	4,419.98
November	3,078.91	1,604.91	309.18	4,993.00
	$38,893.14	$18,775.39	$4,647.72	$62,316.25

GENERAL ADMINISTRATION.

	Salaries.	Miscellaneous.	Totals.	Wayfarers' Lodge.
December	$856.66	$120.01	$976.67	$753.26
January	856.66	66.76	923.42	840.53
February	856.68	57.46	914.14	725.16
March	856.66	48.46	905.12	302.68
April	872.83	117.63	990.46	360.45
May	890.85	78.82	969.67	284.24
June	840.83	77.60	918.43	290.69
July	873.33	82.84	956.17	110.96
August	844.04	75.62	919.66	83.56
September	948.32	95.30	1,043.62	297.97
October	948.33	148.35	1,096.68	368.12
November	948.35	99.45	1,047.80	436.89
	$10,593.54	$1,068.30	$11,661.84	$4,854.51

TOTALS.

	Outdoor Relief.	Almshouse.	General Administration.	Wayfarers' Lodge.	Grand Totals.
December	$3,845.37	$6,219.82	$976.67	$753.26	$11,795.12
January	4,585.14	4,322.56	923.42	840.53	10,671.65
February	5,234.83	3,498.55	914.14	725.16	10,372.68
March	5,308.33	4,448.73	905.12	302.68	10,964.86
April	5,307.73	3,952.00	990.46	360.45	10,610.64
May	5,569.69	4,440.86	969.67	284.24	11,264.46
June	5,140.40	9,577.16	918.43	290.69	15,926.68
July	5,441.58	6,962.30	956.17	110.96	13,471.01
August	3,902.86	5,524.14	919.66	83.56	10,430.22
September	5,658.22	3,957.15	1,043.62	297.97	10,956.96
October	4,084.46	4,419.98	1,096.68	368.12	9,969.24
November	8,630.55	4,993.00	1,047.80	436.89	15,108.24
	$62,709.16	$62,316.25	$11,661.84	$4,854.51	$141,541.76

REPORT

OF THE

SOLDIERS' RELIEF COMMISSIONER

SPRINGFIELD, MASS., December 8, 1919.

To His Honor, the Mayor, and the City Council of the City of Springfield.

The unfortunate accident which occurred September 23, 1919, and caused the death of the late Mr. James L. Bowen, Commissioner of Soldiers' Relief, was a deep shock to his many friends in public and private life.

As Commissioner of Soldiers' Relief and State Aid for the City of Springfield he handled the cases that came before him with personal interest and sympathy that this form of assistance requires. He was a good soldier, a good citizen, and a good public official, and he will be long and kindly remembered by all who knew him.

I have the honor to respectfully submit the following report for the fiscal year 1919, including the beneficiaries of the Civil War, Spanish War, and World War.

Aid extended to these different classes is governed by certain laws and acts of Massachusetts, and by the approval of our State and Military Aid committee of Springfield.

Owing to the rapid demobilization of soldiers in the World War the amount of aid extended to the dependents has been practically eliminated.

It might be well to mention that dependents of this class can receive aid only while their soldier is in the service, he having enlisted or having been inducted into the service for the period of the emergency, which accounts for the decrease in aid disbursed during the past year. However, an act was recently passed giving the veteran of the World War the same benefits as those of the Civil and Spanish wars. There has been no application to date under this heading, but with the disability contracted in line of duty in the recent struggle we can look forward to demands for aid in the near future.

The disbursements of the different classes for 1919 are as follows:—

State Aid, Civil War	9,646.00
State Aid, Spanish War	204.00
Soldiers' Relief disbursed	6,633.01
Military Aid	40.00
Soldiers' Burial	50.00
Administration	2,467.88

Recipients of State Aid enrolled at close of year:—

Veteran soldiers	42
Widows	93
Soldiers' wives	1
Widowed mothers	1

Recipients of Soldiers' Relief at close of year:—

Veteran soldiers	11
Families	9
Widows	41

WORLD WAR.

1919.		1918.	
December, 1918	$3,460.63	December, 1917	$1,452.00
January	2,745.75	January	1,506.15
February	2,716.02	February	1,672.00
March	2,086.50	March	2,260.33
April	2,336.82	April	2,022.00
May	1,211.00	May	2,212.00
June	1,358.34	June	2,082.00
July	639.85	July	2,572.00
August	607.78	August	2,687.00
September	323.00	September	2,434.50
October	178.50	October	4,022.00
November	145.00	November	3,432.00
	$17,809.19		$28,353.98

I respectfully take this opportunity to express my appreciation and thank most kindly all those that made my appointment as Commissioner of Soldiers' Relief possible.

Respectfully submitted,

GEORGE A. ROBERTS,
Commissioner Soldiers' Relief.

REPORT

OF

SOLDIERS' AND SAILORS' GRAVES

SPRINGFIELD, MASS., December 31, 1919.

To His Honor, the Mayor, and City Council of Springfield.

GENTLEMEN:—I respectfully submit the following report. During the year just passed twenty-nine veterans of the Civil War died in Springfield. Of these twenty-four were buried in Springfield cemeteries. I have made frequent visitations to all of the cemeteries during the year, and am able to report that the work of caring for the graves of deceased soldiers and sailors has been carefully and conscientiously performed. For some reason not known to me, there has been no appropriation made for the care of soldiers' graves in the Sixteen Acres Cemetery. There are nineteen veterans of the Civil War buried there. I respectfully recommend that an appropriation of twenty dollars be made for the care of those graves. The cemetery is controlled by a board of trustees, of which Mr. James Greenaway of Indian Orchard, is president. I have asked for a small increase in the appropriation for Saint Michael's Cemetery, as in addition to the two veterans buried there during the year, I found six others that had not been brought to the attention of the cemetery authorities. Nine government headstones have been placed in Oak Grove Cemetery.

The expense incurred during the year has been:—

For Springfield Cemetery	$450
For St. Michael's Cemetery	90
For St. Benedict's Cemetery	50
For St. Matthew's Cemetery	15
For St. Aloysius' Cemetery	7
For Cherry Street Cemetery	2
For salary of Superintendent	200
Total	$814

Respectfully submitted,

JOHN C. CONDON,

Supervisor of Soldiers' and Sailors' Graves.

REPORT

OF THE

SEALER OF WEIGHTS AND MEASURES

To the Honorable Mayor and City Council.

GENTLEMEN:—In accordance with section one of Chapter 452 of the Acts of 1914 I herewith submit the annual report of the Department of Weights and Measures for the fiscal year ending November 30, 1919.

Appropriations		$6,135.00
EXPENDITURES.		
Salaries	$4,691.36	
Stationery and office supplies	105.57	
Printing and record books	65.78	
Transportation and trucking	138.91	
Storage and care of vehicles	169.59	
Gasoline, tires, tubes and repairs	529.20	
Equipment and tools	134.97	
Repairs on equipment	63.43	
Seals, presses and dies	92.11	
Miscellaneous	63.52	
		$6,054.44
Sealing fees collected and paid to City Treasurer		$1,074.55

Detailed report of the work of the department as submitted to the Commissioner of Standards, State House, Boston, Mass., for the fiscal year 1919, follows:—

	Sealed.	Condemned.
Platform scales, over 5,000 pounds	72	2
Platform scales, under 5,000 pounds	650	55
Beam scales	93	73
Counter scales	810	17
Spring scales	1,022	219
Computing scales	537	193
Jewelers' scales		1
Personal weighing scales	101	9
Prescription scales	75	
Avoirdupois weights	5,297	17

	Sealed.	Condemned.
Apothecary	928	98
Metric weights	34	
Troy weights	35	4
Oil and gasoline pumps	268	20
Molasses pumps	19	
Dry measures	63	
Liquid measures	1,709	37
Ice cream cans	1,001	1
Yardsticks	251	5
Steel tapes	20	
Computing measuring devices	32	
	13,017	751

TRIAL WEIGHINGS AND MEASUREMENTS.

	Tests.	Correct.	Under.	Over.
Coal in transit	64	12	38	14
Wood	12	9		3
Ice	35	8	1	26
Grain and feed	46	11	8	27
Flour	93	27	33	33
Butter	132	87	23	22
Dry commodities	139	114	22	3
Fruits and vegetables	34	7	12	15
*Meats and provisions	99	10		89
Bread	713	262	260	191
Dry goods	2	2		
Gasoline	10	8		2
Confectionery	8	7	1	
Totals	1,387	564	398	425

* One car load of beef re-weighed by Sealer. A certificate of weight was given for the purpose of adjusting the shortage.

During the fiscal year there have been sixteen court summons for persons, firms, or corporations. Out of this number twelve have been convicted for violations of the weights and measures laws and fined to the amount of $345 and four have been discharged.

The volume of work or activities of the department should not be judged by the number of prosecutions made for it is my policy to prosecute only the willful offender or the persistently careless who cannot be corrected in any other way.

The increased amount of work done by the department in comparison with the years just previous is reflected in the figures given above. The number of articles sealed is nearly double and the condemned articles are

more than doubled. The same is true as to sealing fees collected, the amount being $1,074.44 as against $513.98 in 1918.

In making these comparisons I find that the Act of the Legislature in amending the Statute governing fees to be collected for sealing by Chapter 128, General Acts 1919, which took effect July 23, 1919, in some types the fee being decreased and in others increased, has not materially altered the total and it is based upon the capacity rather than upon the type of scale as formerly, thus removing any question as to the legal amount to be collected.

The entire city has been covered at least once and in many instances several times during the year and this is especially true in the case of gasoline measuring devices which are requiring almost daily attention of the department either by reason of new installation, change of type, accidents, or of failure to function properly, and by reason of the construction is the most difficult device for the consumer to check the quantity he receives. In referring to this device it is only fair to say that the manufacturers, the Bureau of Standards in Washington, and the Weights and Measures officials throughout the country are thoroughly alive to this subject and I believe that in the very near future there will be a device produced that will leave no doubt in the minds of the consumers as to the quantity they receive when purchasing this most important commodity.

We have had during the fiscal year 559 special calls for our services on scales or pumps and in many instances two or three trips were required before the device was finally approved as correct, thereby consuming a considerable portion of the time of one or more persons. We have also had an ever-increasing number of calls to weigh and measure commodities after delivery such as wood, coal, ice, potatoes, and various other articles which must be given immediate attention in order to be of any value.

During the late war the regulations of Bakeries were under the supervision of the Federal Food Administration Commission which superceded the state laws and local authorities, and now it becomes the duty of the Weights and Measures officials to see that the state law is conformed to. In most instances the bakers have shown a sincere desire to co-operate, and on their invitation I appeared before their association for the purpose of explaining the laws pertaining to their business with beneficial results to all parties concerned.

In some brands of bread the size of the loaf has recently been reduced from one pound eight ounces to one pound six ounces on wrapped bread ready for delivery. This is entirely within the law provided the net weight is printed or stamped on the outside of the wrapper. This is not a local

condition but is state-wide, therefore it behooves the purchaser, not only of bread but of all food in package form, to look for the net weight marking on the outside of the package or container, especially so in dried fruits, baking powder, cookies, etc., as the old style package of pound, half pound, etc., has almost if not entirely disappeared and can only be restored by Federal legislation, now strongly advocated by the Weights and Measures officials in many sections of the country. Fruit and vegetable baskets should also be standardized by Federal regulation in peck, half bushel, bushels, etc.

The subject of re-weighing of commodities is of special interest at this time on account of the recent publicity and comment through the press, and without question in good faith on the part of the publishers. Nevertheless, the facts will show they are misleading to the general public and taking the figures in this report there are 1,165 re-weighings of grain, flour, butter, dry commodities, fruit and vegetables, bread and confectionery; there were 24.97 per cent under and 31.91 per cent over, the balance being correct. This shows more over than under weights and in consideration of the small amount usually just enough to place them in the over or under column. If it is found that the underweight in any instance is sufficient to warrant prosecution, it is the plain duty of the officer who discovers the underweight to prosecute the offender.

In the re-weighing of coal in transit this report also shows a much greater percentage of overweight than underweight. The official figures follow:—

Number of loads of coal re-weighed	64
Number of loads of coal showing correct weight	12
Number of loads of coal showing short weight	14
Number of loads of coal showing overweight	38
Total pounds of shortage shown	860
Total pounds of overweight shown	1,598
Total pounds net overweight on all loads	738

In view of these facts it does not appear that the consumer should be unduly alarmed in this respect, and it is only fair to assume that the large majority of merchants mean to be honest with their customers in the matter of weights and measures and should not be classed with the minority of unscrupulous dealers.

A large number of milk bottles have been tested as to their capacity and notwithstanding the fact that they bear the Massachusetts Seal, sealed by the manufacturer under the provision of the statute, there were found 7,982 pint bottles not one of which was full measure and by authority

of a written agreement between the manufacturers and the Sealer these bottles will be disposed of in a manner to guarantee against their further use.

Much of the Sealer's time is consumed receiving and investigating complaints, real or otherwise, of violations, store inspections and conferences, prosecutions and preparation for the same, answering inquiries and assisting in various ways, mostly educational, but which by its very nature cannot appear in a tabulated report. The rapidly increasing number of calls both at the office and residence of the Sealer is to be encouraged as they tend to increase the efficiency of the department and is of inestimable value to the general public.

I wish to take this opportunity of thanking all who have by their co-operation assisted in developing the efficiency of this department.

Respectfully submitted,

WILLIAM FOSTER,
Sealer.

BOARD OF HEALTH.

ORGANIZATION OF HEALTH DEPARTMENT

BOARD OF HEALTH.

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EDGAR H. GUILD, M.D. GEORGE L. SCHADT, M.D.

EDGAR H. GUILD, M.D.,
Health Physician and Bacteriologist.

WILLIAM L. YOUNG,
Agent and Clerk.

GRACE E. WARREN, *Chief Clerk.*
MARY E. MACDONNELL, *Office Clerk.*
ANNA C. O'CONNELL, *Office Clerk.*
BELLE LYTLE, *Office Clerk.*
WINIFRED A. HANNIGAN, *Department Nurse.*

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WILLIAM J. HASSETT,
DANIEL J. MAHONEY,
HENRY WRIGHT, JR.

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STEPHEN C. DOWNS,
FRED L. ROBERTSON.

INSPECTOR OF VINEGAR.

STEPHEN C. DOWNS.

INSPECTOR OF ANIMALS, MEATS AND PROVISIONS.
INSPECTOR OF SLAUGHTERING.

HARRY LUKES, D.V.S.

HEALTH DEPARTMENT HOSPITAL.

1414 State Street.

EDGAR H. GUILD, M.D., *Physician in Charge.*

CONSULTANTS.

EVERETT A. BATES, M.D.
DUDLEY CARLETON, M.D.

CONTAGIOUS DISEASES.

Visiting Physicians.

ORLAND R. BLAIR, M.D.
RALPH B. OBER, M.D.
HENRY RITTER, M.D.
CHARLES E. STREET, M.D.

TUBERCULOSIS.

Visiting Physicians.

LAURENCE D. CHAPIN, M.D.
WALTER A. HOSLEY, M.D.
GEORGE L. WOODS, M.D.

Aurist and Laryngologist.

WILLIAM A. HARE, M.D.

Roentgenologist.

ERNEST L. DAVIS, M.D.

ETHEL I. MINKLER, *Matron.*

MEDICAL INSPECTORS OF SCHOOLS.

EDGAR H. GUILD, M.D., *Director.*

WALTER H. CHAPIN, M.D.
MICHAEL W. HARRINGTON, M.D.
JAMES P. HILLARD, M.D.
*WALTER A. HOSLEY, M.D.
URGELE LABELLE, M.D.
RALPH B. OBER, M.D.
THOMAS F. REARDEN, M.D.
ALLEN G. RICE, M.D.
HENRY RITTER, M.D.
CHARLES E. STREET, M.D.
EDWARD J. SWEENEY, M.D.
JOSEPH N. BOYER, JR., M.D.
JOHN M. MALONEY, M.D.
JOSEPH T. MCGINITY, M.D.

SCHOOL NURSES.

MARGUERITE ARMSTRONG.
*MARY A. HICKEY.
ELIZABETH N. JOYCE.
ALICE M. CRAWFORD.
JENNIE M. ROURKE.
KATHERINE G. HANNIGAN.

DISPENSARY FOR TUBERCULOSIS.

137½ State Street.

EDGAR H. GUILD, M.D., *Director.*

DISPENSARY PHYSICIANS.

WALTER H. CHAPIN, M.D., *Chief of Clinic.*
ERNEST H. JUDD, M.D.

EDNA R. BIRDSALL, *Dispensary Nurse.*
ADALINE B. PERRY, *Clerk and Visitor.*

DENTAL CLINICS.

FRANK W. MOULTIS, D.D.S., *School Dentist.*
PAUL A. DONOHUE, D.D.S., *School Dentist.*
RUTH I. PERRIN, *Dentist's Assistant and Clerk of Clinic.*
MARION G. VANDERPOOL, *Dentist's Assistant and Clerk of Clinic.*

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*Resigned.

THIRTY-EIGHTH ANNUAL REPORT

OF THE

BOARD OF HEALTH

To His Honor, The Mayor, and Members of the City Council.

GENTLEMEN:—The definite interest which is manifest in all matters relating to the protection and conservation of the public health is most encouraging to health officials, who are in a position to understand the absolute necessity of co-operation on the part of the individual and the community at large, if any real progress is made in the various movements for better health and freedom from disease. Many clubs, societies, associations, and organizations of the city are devoting time and money to various phases of health work. The daily press throughout the year gives much space in its columns for articles on a great variety of subjects pertaining to health, many of them written by the best authorities in the country, all of which indicate the great awakening going on in reference to the value of good health to the community, either as an economic or financial asset.

The importance of establishing certain definite cardinal principles or rules, which must be followed until the care of health becomes a fixed habit, cannot be over-emphasized. Naturally the time when such habits are easily formed is in the early period of life, and child welfare work in its various aspects stands today as the most important division of Health Department activities to be enlarged and developed. Abundant information has been obtained through surveys, investigations, and commissions as to the prevalence of many preventable and easily curable ailments of children which in later years are less amenable to treatment or relief. The large number of rejections in the army for these ailments shows the necessity for an active campaign along these lines. Such information having been obtained, the effort and expense incurred are without value to any community unless some action is taken to relieve these conditions. To know that 25% of school children have defective vision, 30% adenoids and enlarged tonsils, and 60% defective teeth is of no benefit to the individual, unless the necessary money and facilities are provided for the

relief of these conditions by systematic and well planned efforts, either under private or city direction. A great deal of credit should be given to private associations and clubs for the work which has been accomplished during the year, and the spirit of co-operation existing between all these organizations and the health department is to be regarded with much satisfaction. The field of effort is so large that there is room enough for all and the duplication of effort sometimes occurring has little significance when the sum total of good accomplished is taken into consideration.

The great increase in sickness and mortality which was expected to follow the pandemic of influenza did not occur and the various tables contained in the report relating to the occurrence of disease, its distribution, and mortality are worthy of mention from the fact that it has been an exceptionally healthy year with the lowest mortality rate in the history of the city. It is interesting to know that influenza patients made good recoveries with few complications or the disease was fatal in a few days. Tubercular patients were not especially susceptible to the disease, and no increase in tuberculosis traceable to that cause has been noticed during the year. Contagious diseases have been less in number and of a mild type, especially scarlet fever. Pneumonia and other respiratory diseases have not been reported to any extent.

An immunity from disease is present in many individuals, but the methods by which it is produced are not clearly understood and it is worthy of consideration, in view of the lessened mortality in many cities, whether the pandemic of influenza has produced a temporary immunity against other diseases in the large number of people infected during its continuance. Statistics bearing on the freedom of influenza patients from other diseases during the year are not available, but would be of an interesting nature, as one tenth of the population was no doubt infected, and if such immunity was established it would at least offer one explanation of the present favorable mortality rates. Other influences are constantly at work for the prevention of disease and the work carried on by the Health Department in its various divisions has gradually increased in extent from year to year, and the systematic development of these different activities will naturally have a bearing on the health and mortality rates of the city in the future.

Definite results from Health Department activities are not always immediately apparent and it may be interesting to those who are not familiar with public health work to give a brief résumé of the more important features connected with the extension of the department and the results obtained. The population of the city in 1908 was 81,425 with a death rate of 15.03 per 1000 population. In 1919 the population is

estimated 127,441 with a death rate of 13.69 per 1000 population. An increase of 45,000 in population in twelve years with all the changes naturally occurring in the social and economic life of the city has brought new problems for solution to the attention of the department. Ideas regarding sanitation have changed and some of the work performed by the Health Department in previous years is now under the direction of the Street Department. Oversight of the plumbing has been transferred to the Building Department. The water supply of the city is so carefully guarded that the transmission of disease in that manner is practically eliminated. Rules and regulations concerning the control of contagious diseases have been revised and represent the best ideas pertaining thereto at the present time. The Health Department Hospital has been remodeled so that contagious diseases can be treated without danger of cross infections. Wards have been established for the care of tuberculosis, and the methods of controlling outbreaks of smallpox have been so modified that unnecessary quarantine has been abolished and a separate hospital for these made unnecessary, thereby saving many thousands of dollars for the city.

Medical supervision of schools has been developed until it covers general child welfare work and may be most favorably compared with that of other cities. School nurses, dental clinics, home helpers' leagues, and malnutrition classes are some of the more important additions. The work of controlling tuberculosis has been centralized in the tuberculosis dispensary. A definite knowledge of all cases of tuberculosis in the city with measures taken for treatment and care is a matter of record with continual supervision as found necessary.

The supervision of the milk supply of the city has been developed until it now has an extended reputation and the methods used with the rules and regulations connected therewith have been adopted by many other cities. The sanitary and inspection service has grown with the increase of population. Careful and continued oversight is maintained over a large variety of business establishments. The high standing of the bakeries of the city, as scored from year to year by the consumers' league, is an illustration of the work which is being performed by this division.

All the work of the department is a matter of record and the methods used, along with their accuracy and statistical value, are most creditable to the city and to those having charge of this division of the department. The different tables appearing in the annual report illustrate the nature of this work and its value. The relations existing between the Health Department and all state authorities having control or jurisdiction over local health matters are of the most satisfactory nature, a situation only

obtained through the efficiency of those connected with the department in their various positions.

TRANSACTIONS AND GENERAL WORK OF THE DEPARTMENT.

The Board of Health organized for the year by electing Philip V. Erard, Chairman, and William L. Young, the agent of the board, as Clerk. A complete list of the employees accompanies the report. Twenty-one regular meetings of the board and nine special meetings were held during the year. Applications for the operation of three lying-in hospitals and six infant boarding houses were approved. Three milk producers' permits to sell milk in Springfield were revoked. Two sewer connections were ordered. Two prosecutions were made for violation of contagious disease rules, one for failure to obey order to repair bakery, and two for occupying stables without a license. The following physicians upon their return from military service were reappointed to their former positions as medical inspectors: Dr. J. N. Boyer, Dr. R. B. Ober, Dr. A. G. Rice, Dr. H. Ritter, Dr. C. E. Street, and Dr. E. J. Sweeney. Elizabeth M. Joyce and Martha R. Joyce, school nurses, were also reappointed upon their return from service. Winifred A. Hannigan was reappointed as department nurse. Katherine G. Hannigan received a provisional appointment as school nurse. Dr. Frank W. Moultis and Dr. Paul A. Donohue were appointed school dentists after passing the required civil service examinations for that position. Marion G. Vanderpool was appointed dentist's assistant and clerk. Edna R. Birdsall was appointed dispensary nurse and Jennie M. Rourke, school nurse. Belle Lytle was appointed office clerk. Dr. Harry S. Lukes was appointed inspector of slaughtering. The resignations of Dr. E. T. Smith and Dr. W. A. Hosley, medical inspectors, were accepted, also the resignations of Martha R. Joyce and Mary A. Hickey, school nurses. The general work of the department comprising the investigation of complaints and removing the causes, sanitary inspection of tenements and a great variety of miscellaneous work, is summarized in the following table; and shows the amount of work performed during the year.

SUMMARY OF THE GENERAL WORK OF THE DEPARTMENT.

Complaints Investigated and Cause Removed.

Alleys, insanitary,	10
Animals, dead, not removed,	34
Animals, keeping of,	18
Ashes, rubbish, and garbage on ground,	71
Buildings, odor in,	8
Cellars, insanitary,	34
Cesspools,	27
Committing nuisance,	8
Complaints investigated, no cause found,	24
Contagious diseases, suspected cases,	8
Contagious diseases, failure to observe rules relative to,	18
Dumping grounds,	24
Fowls, keeping of,	38
Garbage, insanitary receptacle,	35
Halls and stairways, insanitary,	10
Milk, unclassified,	60
Odors from unknown source,	25
Plumbing, insanitary,	9
Privy vaults,	3
Provisions, poor quality,	20
Sewer drains, stoppage of,	21
Sewer openings, odor from,	4
Slops thrown on ground,	7
Stables,	21
Standing water, odor from,	12
Stores, insanitary,	17
Stores, refuse not removed,	37
Swine, keeping of,	23
Tenements, insanitary,	28
Unclassified,	42
Water closets, insanitary,	38
Water closets, without water,	23

SANITARY INSPECTIONS.

Classification.	Total Inspections.	Re-inspections.	First Notices.	Complied.	Pending.
Alleys,	2,571	502	476	473	3
Cellars,	1,884	139	108	103	5
Cesspools,	140	41	22	22	0
Dumps,	158	18	12	12	0
For enforcement of Polluted Water Regulations,	8	4	4	4	0
Garbage cans,	2,219	136	122	122	0
Hallways,	285	93	88	85	3
Poultry yards,	343	51	43	43	0
Plumbing, defective,	60	34	24	24	0
Plumbing, frozen,	10	5	6	3	3
Sinks,	267	13	11	10	1
Stables,	714	99	89	88	1
Stores,	96	18	18	18	0
Vaults,	64	6	5	5	0
Water closets,	2,617	132	100	98	2
Yards,	48,698	1,463	1,296	1,287	9
Keeping fowls in tenements,	15	8	6	6	0
Dead animals on private property,	30	15	11	11	0
For enforcement of Common Cigar Regulation,	11	5	5	5	0
Miscellaneous,	1,342	102	93	93	0

Scarlet fever cases investigated,	176
Diphtheria cases investigated,	140
Typhoid fever cases investigated,	23
Cerebro-spinal meningitis cases investigated,	2
Anterior poliomyelitis cases investigated,	2
Smallpox cases investigated,	3
Contagious diseases, suspected cases,	66
Visits to tubercular cases,	68
Visits to diphtheria carrier,	3
Visits to eye cases,	1
Visits to chicken pox cases,	5
Visits to whooping cough cases,	2
Visits to placarded houses,	258
Visits to smallpox exposure,	12
Visits to venereal disease cases,	42
Diphtheria swabs for release,	113
Histories (settlement),	219
Houses fumigated,	410
Rooms fumigated,	674
Houses placarded for influenza cases,	398
Visits to remove cards, influenza cases,	495
Visits to enforce denatured or wood alcohol regulations,	99
Establishments visited to post Venereal Disease Clinic notice,	218

Tenements.

Tenements inspected,	1,795
Tenements reinspected,	160
Tenements overcrowded,	5
Tenements with dark rooms,	12
Tenements in need of repairs,	49
Water closets poorly ventilated,	9
Water closets poorly lighted,	4
Dark hallways,	2
Number defects found and notices given,	131
Number pending,	5
Number complied with,	126

Defects and nuisances complied with.

Tenements needing cleaning,	22
Hallways needing cleaning,	5
Rubbish in cellars,	33
Water closets defective,	31
Set tubs defective,	2
Water closets needing cleaning,	24
Waste pipes leaking,	2
Sinks defective,	9
Fowls kept in tenements,	3

Miscellaneous.

Inspections,	69,521
Reinspections,	3,599
Total inspections,	73,120
Verbal notices,	3,273
Written notices,	132
Notices served,	81
Nuisances abated by Board of Health, expense charged to owners,	8
Stable licenses granted,	17
Stable licenses revoked,	2
Given leave to withdraw,	12
Pending,	100
Undertakers' licenses granted,	20

Licenses granted to practice manicuring, massage, and giving of vapor baths,..... 23
Given leave to withdraw,..... 0
Licenses to deal in denatured or wood alcohol,..... 74
Prosecutions,..... 9
Convictions,..... 9
Fines,.....$160.00

NUMBER OF INSPECTIONS AND ACTION TAKEN TO REGULATE CERTAIN BUSINESS ESTABLISHMENTS.

CLASSIFICATION.	Number.	Inspections.	Written Notices.	Verbal Notices.	To Whitewash.	For Alterations.	Notices to Clean.	Other Notices.	Complied with.	Pending.
Bakeries,.....	79	629	8	151	21	12	116	10	155	4
Bakery Salesrooms,	19	143	0	8	0	0	6	2	8	0
Restaurants,.....	121	1,087	5	164	11	2	138	18	166	3
Candy Manufactories,.....	9	19	0	5	1	0	4	0	5	0
Ice Cream Plants,.	88	165	2	38	3	5	24	8	40	0
Soda Fountains and Ice Cream Salesrooms,.....	195	622	0	58	0	0	35	23	58	0
Soda Bottling Plants,.....	7	14	0	3	0	0	3	0	3	0
Barber Shops,.....	113	440	3	55	0	0	49	9	58	0
Theaters,.....	11	19	...	...	...	...	...	...	...	...
Licensed Lodging Houses,.....	23	31	1	4	0	0	2	3	5	0
Infant Boarding Houses,.....	4	5	...	...	...	...	...	...	...	...
Cafe Restaurants,..	14	52	0	9	0	1	8	0	9	0
Hotel Kitchens,...	11	53	0	6	0	0	6	0	6	0
Peanut Products Establishment,..	1	3	...	...	...	...	...	...	...	...
Ice Cream Cone Manufactories,..	4	16	0	2	1	0	1	0	2	0
Spaghetti Manufactories,.....	1	1	...	...	...	...	...	...	...	...

DISEASES DANGEROUS TO THE PUBLIC HEALTH.

There has not been any addition to the list of diseases considered dangerous to the public health during the year. The statutes require that all diseases so classified shall be reported to the local Board of Health, which is the only means through which the department obtains their knowledge of the existence of contagious diseases, and early information is especially valuable in controlling local outbreaks; epidemics of varying proportions are often caused by the existence of unrecognized or unreported cases and the importance of the statute and rules governing the control of this class of diseases calls for their strict observance. "Disease carriers" so called are responsible for the dissemination of disease to a certain extent. Their recognition and control is a difficult matter and deserves the special attention of the state authorities.

Actinomycosis
Anterior Poliomyelitis
Anthrax
Asiatic Cholera
Chicken Pox
Diphtheria
Dog-bite (requiring anti-rabic treatment)
Dysentery:—
  a. Amebic
  b. Bacillary
German Measles
Glanders
Hookworm Disease
Infectious Diseases of the Eye:—
  a. Ophthalmia Neonatorum
  b. Suppurative Conjunctivitis
  c. Trachoma
Influenza
Leprosy
Malaria
Measles
Mumps
Pellagra
Pneumonia (lobar)
Rabies
Scarlet Fever
Septic Sore Throat
Plague
Smallpox
Tetanus
Trichinosis
Tuberculosis (all forms)
Typhoid Fever
Typhus Fever
Whooping Cough
Yellow Fever

TUBERCULOSIS.

183 (218)* cases of tuberculosis were reported during the year, 148 (179) pulmonary, and 35 (39) all other forms. There were 93 (124) deaths from pulmonary tuberculosis and 19 (28) from all other types of the disease. The death rate is .878 (1.231) per thousand population. Tuberculosis is not increasing and there is every encouragement to believe that still greater progress will be made in its future control. Preventive measures are taking on a broader field of action and it is in this direction that the desired lessening in the number of new cases will be obtained. Child welfare work in its various aspects is one of the most valuable agencies in the prevention of tuberculosis and every phase of the work should receive hearty indorsement and support.

* Figures in parentheses indicate corresponding numbers in 1918.

DIPHTHERIA.

140 (227) cases of diphtheria were reported during the year, with 22 (28) non-resident deaths, leaving a case mortality of 15.7%. There were 25 laryngeal cases, 8 nasal, and 5 ear infections; 21 (26) secondary infections occurred. 26 (42) gave a history of contact with other cases. 6 (10) were imported cases. 5 (9) made visits outside the city and in 82 cases the source of infection could not be determined. 73 cases or 52% of the total number reported occurred among school children.

Deaths from diphtheria at the present time are due to the delay in recognition of the disease, and failure to use antitoxin in sufficient doses accounts for the high mortality still prevailing. Antitoxin is furnished by the state without expense to physicians or patients and can be obtained in any quantity at all times from the department office or laboratory. The number of reported cases is the lowest in years and, when the increase in population is considered, it furnishes substantial evidence as to the value of the measures taken for its control, especially in the schools where formerly the largest number of cases occurred.

SCARLET FEVER.

176 (139) cases were reported during the year, with 3 (3) deaths. 39 (23) secondary infections occurred. 37 (32) gave a history of contact with other cases. 7 (4) were contracted outside the city, 7 made visits away from the city during the incubation period, and in 86 cases the source of the infection could not be discovered. 113 cases occurred in the public schools. The disease has been of such a mild type that many cases were not recognized during the most infectious stage of the disease and no physician was called in attendance. Early isolation is of the utmost importance in controlling scarlet fever, and mild types of the disease are especially difficult to reach for the above reason.

TYPHOID FEVER.

22 (29) cases were reported during the year with 3 (3) deaths from resident cases giving a case mortality of 13.63% (10.34%). 4 (4) were contracted away from home, 3 (4) made visits outside the city within 30 days previous to date of illness, 3 secondary infections occurred from primary cases and in 11 cases the source of the disease was not determined. The supervision over the water and milk supply of the city is so carefully

maintained that danger of transmission by these agencies is practically eliminated, and its occurrence is confined to isolated cases.

INFLUENZA.

The pandemic of influenza continued over from 1918 with a gradually decreasing number of cases for the first three months of the year. 776 cases were reported for the entire year with 120 deaths. Taking the entire number of cases reported from the beginning of the epidemic to the close of this year the case mortality was 7.03%. Isolation of patients was continued and seems to be the chief procedure now recommended. It became effective October 27, 1918, and was believed to be the logical procedure at that time.

The possible reappearance of the disease in epidemic form should be borne in mind and it is the duty of every one to take those individual precautionary measures which have been so widely published. Contact with those who have the disease is the method by which it is communicated and mild cases transmit the infection as well as the severe ones. It is therefore of the utmost importance that the individual assumes his share of the responsibility and does his part in limiting the extent and duration of any outbreak that may occur.

OTHER DISEASES DANGEROUS TO THE PUBLIC HEALTH.

2 (4) cases of anterior poliomyelitis were reported during the year with 0 (0) deaths; cerebro-spinal meningitis, 2 (5) cases with 2 (4) deaths; 3 cases of smallpox were reported and removed to the hospital for treatment with no deaths. Of the milder infections, measles 40 (990) cases with 2 (13) deaths; whooping cough 149 (229) with 3 (36) deaths, a much lower mortality than the previous year. 51 (73) cases of infectious diseases of the eye in infants were reported, all of which were investigated and received such care as was necessary by the department nurse.

TABLE SHOWING DEATH RATE OF TUBERCULOSIS FROM 1890, ESTIMATED ON POPULATION.

YEAR	POPULATION	DEATHS	RATE
1890	*44,179	114	2.58
1895	*51,522	97	1.88
1900	*62,059	111	1.78
1901	64,412	122	1.96
1902	66,854	111	1.66
1903	69,389	114	1.64
1904	72,020	123	1.7
1905	*73,540	120	1.63
1906	76,255	116	1.52
1907	78,707	114	1.44
1908	81,425	91	1.11
1909	84,237	101	1.19
1910	*88,926	87	.97
1911	92,048	101	1.09
1912	96,973	101	1.04
1913	100,877	99	.98
1914	104,949	109	1.03
1915	*102,971	101	.98
1916	106,365	91	.85
1917	117,058	124	1.059
1918	124,409	152	1.221
1919	127,441	112	.878

*Official census.

DEATH FROM TUBERCULOSIS—1919
(Pulmonary)
BY WARDS AND MONTHS.

Wards.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
1	2	1	3	1	1	1	..	..	1	..	2	..	12
2	4	1	2	1	2	..	2	2	2	2	1	1	20
3	1	..	2	1	1	1	4	1	..	4	..	..	15
4	..	..	1	2	2	..	..	1	..	1	..	..	7
5	..	3	2	..	2	..	2	..	..	..	..	..	9
6	..	..	..	..	3	1	2	1	..	1	1	..	9
7	..	..	1	..	1	1	..	..	..	1	..	..	4
8	2	2	3	1	1	1	1	..	1	..	..	1	13
Non-residents	1	..	1	..	..	..	1	..	..	..	..	1	4
Totals	10	7	15	6	13	5	12	5	4	9	4	3	93

TABLE SHOWING REPORTED CASES OF COMMUNICABLE DISEASES, 1919, BY WARDS.

Diseases.	Wards.									
	1	2	3	4	5	6	7	8	Other Res.	Totals
Actinomycosis	..	..	..	..	..	..	..	..	...	...
Anterior Poliomyelitis	..	1	1	..	..	..	..	..	...	2
Anthrax	..	..	..	..	..	..	..	..	...	...
Asiatic Cholera	..	..	..	..	..	..	..	..	...	...
Cerebro-Spinal Meningitis	1	..	..	..	1	..	..	..	...	2
Chicken Pox	42	37	21	19	29	28	64	59	...	299
Diphtheria	23	27	14	23	5	11	13	23	1	140
Dog-bite (requiring anti-rabic treatment)	..	..	..	..	..	..	..	..	...	...
Dysentery:—										
a. Amebic	..	..	..	..	..	..	..	..	...	...
b. Bacillary	..	..	..	..	..	..	..	..	...	...
German Measles	..	1	1	3	4	5	5	5	...	24
Glanders	..	..	..	..	..	..	..	..	...	...
Hookworm Disease	..	..	..	..	..	..	..	..	...	...
Infectious Diseases of the Eyes:—										
a. Ophthalmia Neonatorum	3	16	5	7	2	2	5	5	2	47
b. Suppurative Conjunctivitis	1	..	..	1	..	..	..	2	...	4
c. Trachoma	...	...	...	...	...	...	...	...	...	...
Influenza	85	68	80	82	87	122	142	110	...	776
Leprosy	..	..	..	..	..	..	..	..	...	...
Malaria	..	..	..	1	..	..	..	..	...	1
Measles	5	6	5	7	2	3	7	5	...	40
Mumps	9	..	3	2	3	3	3	3	...	26
Pellagra	..	..	..	..	..	..	..	..	...	...
Plague	...	...	...	...	...	...	...	...	...	...
Pneumonia (lobar)	17	50	31	27	20	33	39	27	3	247
Rabies	...	...	...	...	...	...	...	...	...	...
Scarlet Fever	17	22	10	18	33	9	29	38	...	176
Septic Sore Throat	..	..	..	..	..	..	..	..	1	1
Smallpox	..	..	..	..	..	..	..	3	...	3
Tetanus	..	..	..	..	..	..	..	..	...	...
Trichinosis	..	..	..	..	..	..	..	..	...	...
Tuberculosis:—										
a. Pulmonary	25	30	25	16	13	12	10	17	...	148
b. Other forms	2	11	4	2	3	3	2	8	...	35
Typhoid Fever	1	4	1	7	..	4	1	4	...	22
Typhus Fever	...	...	...	...	...	...	...	...	...	...
Whooping Cough	27	23	9	8	2	11	8	61	...	149
Totals	258	296	210	223	204	246	328	370	7	2,142

TABLE SHOWING REPORTED CASES OF COMMUNICABLE DISEASES BY MONTHS—1919.

Diseases.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Actinomycosis	..	..	..	..	..	..	..	..	..	..	..	..	...
Anterior Poliomyelitis	1	..	..	..	..	..	..	..	..	1	..	..	2
Anthrax	..	..	..	..	..	..	..	..	..	..	..	..	...
Asiatic Cholera	..	..	..	..	..	..	..	..	..	..	..	..	...
Cerebro - Spinal Meningitis	1	..	..	..	..	..	..	..	..	..	..	1	2
Chicken Pox	13	13	47	57	40	27	7	2	3	16	29	45	299
Diphtheria	15	5	19	19	8	6	6	8	7	14	11	22	140
Dog-bite	..	..	..	..	..	..	..	..	..	..	..	..	...
Dysentery:—													
a. Amebic	..	..	..	..	..	..	..	..	..	..	..	..	...
b. Bacillary	..	..	..	..	..	..	..	..	..	..	..	..	...
German Measles	4	1	4	5	2	1	..	..	..	1	4	2	24
Glanders	..	..	..	..	..	..	..	..	..	..	..	..	...
Hookworm Disease	..	..	..	..	..	..	..	..	..	..	..	..	...
Infectious Diseases of the Eye:—													
a. Ophthalmia Neonatorum	1	6	5	2	8	1	1	3	3	11	1	5	47
b. Suppurative Conjunctivitis	..	1	..	..	..	2	..	..	..	..	..	1	4
c. Trachoma	..	..	..	..	..	..	..	..	..	..	..	..	...
Influenza	222	381	147	15	0	0	0	1	5	2	1	2	776
Leprosy	..	..	..	..	..	..	..	..	..	..	..	..	...
Malaria	..	..	..	..	..	..	..	..	1	..	..	..	1
Measles	1	4	1	6	7	4	1	1	1	4	3	7	40
Mumps	1	1	2	..	2	2	1	..	3	1	1	12	26
Pellagra	..	..	..	..	..	..	..	..	..	..	..	..	...
Plague	..	..	..	..	..	..	..	..	..	..	..	..	...
Pneumonia (Lobar)	45	65	44	25	14	3	1	3	5	12	10	20	247
Rabies	..	..	..	..	..	..	..	..	..	..	..	..	...
Scarlet Fever	28	12	12	9	14	9	4	6	5	16	30	31	176
Smallpox	..	..	..	2	1	..	..	..	..	..	..	..	3
Septic Sore Throat	..	..	..	..	..	..	..	..	..	..	..	1	1
Tetanus	..	..	..	..	..	..	..	..	..	..	..	..	...
Trichinosis	..	..	..	..	..	..	..	..	..	..	..	..	...
Tuberculosis:—													
Pulmonary	11	17	11	16	14	17	13	12	10	11	8	8	148
Others	3	3	5	..	4	4	2	1	3	2	2	6	35
Typhoid Fever	..	3	..	..	..	2	1	6	5	3	2	..	22
Whooping Cough	4	13	5	..	6	2	5	4	12	26	34	38	149
Typhus Fever	..	..	..	..	..	..	..	..	..	..	..	..	...
Yellow Fever	..	..	..	..	..	..	..	..	..	..	..	..	...
Totals	350	525	302	156	120	80	42	47	68	120	136	201	2,142

TABLE SHOWING REPORTED CASES AND DEATHS OF COMMUNICABLE DISEASES BY YEARS WITH POPULATION.

Diseases.	1914 104,949		1915 *102,971		1916 106,365		1917 117,058		1918 124,400		1919 127,441	
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths
Actinomycosis	1	...	...	1	...	...	...	...	...	...	...	...
Anterior Poliomyelitis	6	2	7	3	87	22	10	8	4	...	2	...
Anthrax	...	...	1	...	...	...	...	...	...	1	...	...
Asiatic Cholera	...	...	...	...	...	...	...	...	...	...	...	...
Cerebro - Spinal Meningitis	...	...	2	2	4	3	10	7	5	5	2	3
Chicken Pox	141	...	180	...	126	...	251	...	163	...	299	...
Diphtheria	139	13	142	10	176	18	453	64	227	31	140	25
Dog-bite (requiring anti-rabic treatment)	...	...	2	...	...	...	...	...	...	...	...	...
Dysentery:—												
a. Amebic	...	...	...	...	...	...	...	...	...	...	...	...
b. Bacillary	...	...	...	...	...	...	...	...	...	...	...	...
**German Measles	...	...	23	...	25	...	722	...	168	...	24	...
Glanders	...	...	...	...	...	...	1	1	...	...	...	...
Infectious Diseases of the Eye:—												
a. Ophthalmia Neonatorum	7	...	73	...	64	...	57	...	70	...	47	...
b. Suppurative Conjunctivitis	...	...	3	...	2	...	...	...	3	...	4	...
c. Trachoma	2	...	...	...	...	...	...	...	2	...	...	...
†Influenza	...	...	...	...	...	...	...	...	7,110	614	776	120
Leprosy	...	...	...	...	...	...	1	...	...	...	...	...
Malaria	...	...	2	...	3	...	...	...	1	...	1	...
Measles	190	9	611	3	1293	14	531	6	990	13	40	2
Mumps	3	...	135	...	138	1	201	...	398	...	26	...
Pellagra	...	...	...	...	1	1	...	...	...	...	...	...
Plague	...	...	...	...	...	...	...	...	...	...	...	...
***Pneumonia (Lobar)	...	...	...	...	...	...	84	124	852	182	247	77
Rabies	...	...	...	...	...	...	...	...	...	...	...	...
Scarlet Fever	87	1	117	1	240	3	366	6	139	3	176	3
Septic Sore Throat	...	...	3	3	1	4	3	2	1	...	1	1
Smallpox	...	...	...	...	...	...	1	...	...	...	3	...
Tetanus	1	1	...	1	1	1	3	...	1	...	...	...
Trichinosis	...	...	...	...	13	...	...	...	...	...	...	...
Tuberculosis (all forms)	173	109	173	101	...	...	...	...	...	...	...	...
Pulmonary	...	...	...	...	152	6	203	100	179	124	148	93
Other	...	...	...	...	26	25	37	24	39	28	35	19
Typhoid Fever	57	22	48	11	30	5	55	7	29	4	22	6
Typhus Fever	...	...	...	...	...	...	...	...	...	...	...	...
Whooping Cough	78	2	325	18	132	2	105	3	299	36	149	3
Yellow Fever	...	...	...	...	...	...	...	...	...	...	...	...
Totals	951	159	1847	154	2514	165	3094	352	10,682	432	2142	352

Official census.

Tabulated as measles until 1915.

***Reportable since May 14, 1917.

†Reportable since October 4, 1918.

TABLE SHOWING REPORTED CASES OF COMMUNICABLE DISEASES BY AGE PERIODS AND SEX, 1919

Ages.	Under 1 year		1–4		5–9		10–14		15–19		20–24		25–34		35–44		45–54		55–64		65–74		75–84		Over 85		Total		Total Cases
Sex.	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Diseases.																													
Actinomycosis																													
Anterior Poliomyelitis				1		1																						2	2
Anthrax																													
Asiatic Cholera																													
Cerebro-Spinal Meningitis	1														1												2		2
Chicken Pox	5	2	38	35	73	73	28	25	1	5		1	5	6	1							1					151	148	299
Diphtheria	2	1	27	18	27	34	7	11	1	1	2	3		2	2					2							68	72	140
Dog-bite (requiring anti-rabic treatment)																													
Dysentery:—																													
a. Amebic																													
b. Bacillary																													
German Measles	2	2	6	3	4	4	1			1		1															13	11	24
Glanders																													
Hookworm Disease																													
Infectious Diseases of the Eye:—																													
a. Ophthalmia Neonatorum	24	23																									24	23	47
b. Suppurative Conjunctivitis	1		1											1					1								3	1	4
c. Trachoma																													
Influenza	7	7	50	41	61	54	30	35	14	16	19	40	83	147	38	60	20	28	6	10	1	7		2			329	447	776
Leprosy																													
Malaria																1												1	1
Measles	3	3	7	7	7	4	1				2	3		1	1						1						22	18	40
Mumps	1		2	3	3	7	1	3	1	1	2		1					1									11	15	26
Pellagra																													
Plague																													
Pneumonia (Lobar)	1	2	20	14	14	12	5	2	1	7	7	7	27	23	21	13	12	9	16	10	5	10		7		2	129	118	247
Rabies																													
Scarlet Fever	2		20	17	45	53	8	9	3	8		3		5	1	2											79	97	176
Septic Sore Throat												1																1	1
Smallpox					1								1				1										3		3
Tetanus																													
Trichinosis																													
Tuberculosis:—																													
Pulmonary			1	1	1		4	6		8	17	16	25	13	19	9	9	5	6	4	4						86	62	148
Other Forms	1	1	5	3	3		1		1			2	3	2	4	5	2	1	1								21	14	35
Typhoid Fever							2		2	2	4	3	3	2		2	2										13	9	22
Typhus Fever																													
Whooping Cough	7	10	31	46	22	31		1										1									60	89	149
Totals	57	51	208	189	261	273	88	92	24	49	53	80	148	202	88	92	46	45	30	26	11	18		9		2	1014	1128	2142

HEALTH DEPARTMENT HOSPITAL

197 (237) patients were admitted to the different wards of the hospital during the year. The admissions for diphtheria represent 42.1% (40%) of the total number of cases reported and 38.7% (32.4%) of the scarlet fever cases. 12 deaths occurred from diphtheria. 5 neglected septic cases living less than 24 hours, 5 laryngeal cases living less than 10 hours, and 2 septic cases dying on the 10th day. One death occurred from scarlet fever and one from bulbar paralysis admitted for laryngeal diphtheria, 9 cases of ophthalmia were received and were discharged with eyes in normal condition. 15 other cases were received including 3 of smallpox.

The number of admissions to the tuberculosis ward was also less than the previous year, 26 (38) males and 20 (30) females, with an average stay in the hospital of 86.9 days per patient. Patients in more or less advanced stages of the disease comprise the class of patients received, and much improvement in conditions cannot be expected. One patient was discharged with disease arrested, 8 discharged much improved, and 13 transferred to state sanatoria. No cross infections occurred in the contagious wards, which indicated the character of the supervision and the faithful discharge of duties by all employees. The accommodations for tuberculosis patients should be increased and facilities provided for the care of early and hopeful cases, while waiting for admission to state sanatoria.

CONTAGIOUS WARDS.

1919.

Fourteen (14) deaths occurred in Contagious wards.
12 deaths from diphtheria.
5 neglected septic cases living less than 24 hours.
5 laryngeal cases living less than 12 hours.
2 septic cases died on the tenth day.
1 case sent in for laryngeal diphtheria. Diagnosis bulbar paralysis.
1 septic scarlet fever case.

CONTAGIOUS DISEASE WARDS.

1919.

Number of patients in hospital December 31, 1918,	10
Number of patients admitted during the year,	151
Number of intubations for diphtheria,	20
Number of deaths following intubation,	5
Number of private patients admitted during the year,	20
Number of physicians treating private patients,	18
Total number of days for diphtheria patients,	859
Average number of days for diphtheria patients,	13.6
Total number of days for scarlet fever patients,	2,722

Average number of days for scarlet fever patients	36.8
Total number of days for other diseases	435
Total number of days for all diseases	4,016
Number of deaths from diphtheria	12
Number of deaths from scarlet fever	1
Number of deaths from other diseases	1
Total number of deaths from all diseases	14

PATIENTS ADMITTED BY MONTHS.
1919.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Diphtheria	10	3	10	3	1	1	2	6	..	8	6	9	59
Scarlet Fever	10	8	9	3	4	1	3	5	3	4	7	11	68
Ophthalmia	1	1	..	2	1	..	1	1	..	1	..	1	9
Others	..	1	1	3	3	..	..	..	..	..	2	3	13
Mixed Infections	..	..	..	..	..	..	..	..	..	..	..	..	0
Poliomyelitis	..	..	..	..	..	..	..	..	..	..	..	..	0
Measles	..	..	..	1	..	..	..	..	..	..	1	..	2
Totals	21	13	20	12	9	2	6	12	3	13	16	24	151

AGE OF PATIENTS.
1919.

Age	Under 1		1–4		5–9		10–19		20–29		30–39		40–49		50		Totals
Sex	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Diphtheria	2	1	9	9	12	14	4	4	1	2	..	..	..	..	..	1	59
Scarlet Fever	..	..	6	6	16	18	4	13	1	2	1	1	..	..	..	..	68
Ophthalmia	5	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9
Others	1	1	2	1	1	..	..	1	3	2	..	..	1	..	..	..	13
Mixed Infections	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0
Poliomyelitis	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0
Measles	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	2
Totals	8	6	17	18	29	32	8	18	5	6	1	1	1	..	..	1	151

TUBERCULOSIS WARDS.

1919.

Patients in hospital December 31, 1918,	20
Patients admitted during year,	46
Number discharged with disease arrested,	1
Number discharged, improved,	8
Number discharged, condition not improved,	2
Number transferred to other institutions,	13
Number discharged for refusal to obey hospital rules,	0
Number of deaths,	33
Total number of days for patients,	5,734
Average number of days per patient,	102.9
Number condition improving December 31, 1918,	6
Number condition not improving,	3
Number of patients in hospital December 31, 1919,	9

AGE OF PATIENTS.

TUBERCULOSIS WARDS. 1919.

Age	Under 1		1–4		5–9		10–19		20–29		30–39		40–49		Over 50		Totals
Sex	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
Tuberculosis	..	..	1	..	..	..	..	2	6	9	15	3	4	5	..	1	46

PATIENTS ADMITTED BY MONTHS.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Tuberculosis	6	4	4	7	6	7	2	6	2	..	2	..	46

DISPENSARY FOR TUBERCULOSIS.

The position occupied by the dispensary in the work of controlling tuberculosis has been maintained during the year and a definite knowledge of the progress which is being made through the different agencies engaged in the work is apparent in the records maintained of all reported cases. 108 new patients were examined at the dispensary, 48 were tubercular and are under dispensary supervision. The following table shows the amount of work performed, the disposition made of patients and their condition, and indicates the nature of the work which must be continued with all the collateral aid possible to secure. The great hope for the control of tuberculosis is to be found in the development of better health and resistance to disease, through the combined efforts of all agencies having a bearing on the health of the community.

DISPENSARY FOR TUBERCULOSIS.

Report for year of 1919.

Number new patients,		108
Number not tubercular,		60
Number visits to dispensary, new and old patients,		305
Number patients under dispensary supervision during year,		280
Number patients under dispensary supervision December 31, 1919,		102
Number positive sputum examinations,		19
Number negative sputum examinations,		35
Number first visits made at homes,	Nurse,	157
	Visitor,	189
Number subsequent visits made at homes,	Nurse,	775
	Visitor,	861
Number visited unable to attend clinic,	Nurse,	91
	Visitor,	152
Number of visits made on above,	Nurse,	216
	Visitor,	354
Total number of visits,	Nurse,	1,148
	Visitor,	1,404
Number of patients improving,		12
Number of patients not improving,		90
Number dispensary patients admitted to Health Dept. Hospital,		39
Number dispensary patients admitted to other hospitals,		46
Number patients returned from above reporting to dispensary,		104
Number moved out of town (not to sanitarium or hospital),		18
Number deaths of dispensary patients,		63
Number arrested cases,		3

LABORATORIES.

The laboratories of the department are utilized for the examination of milk, cream, vinegar, and ice cream as well as the diagnostic work extended to physicians and hospitals for typhoid fever, diphtheria, tuberculosis, and infectious diseases of the eye. The tables under food inspection show the amount of work performed during the year in the milk laboratory. The medical diagnostic work varies from year to year according to the prevalence of the different diseases. The total number of examinations were 1463 (1883) divided as follows: diphtheria 1094 (1376), tuberculosis 321 (466), typhoid fever 48 (41). The various outfits are always available at any time as well as diphtheria antitoxin, typhoid vaccine, antimeningitis serum, nitrate of silver solution, vaccine for smallpox, also outfits for collecting and sending specimens to the state department laboratory.

DIPHTHERIA.

MONTHS.	DIAGNOSIS.		RELEASE.		TOTAL Examinations.
	Positive.	Negative.	Positive.	Negative.	
January,	11	53	..	30	94
February,	4	43	3	20	70
March,	16	75	2	26	119
April,	15	69	15	44	143
May,	6	47	2	32	87
June,	4	43	..	10	57
July,	4	27	..	4	35
August,	5	33	..	10	48
September,	9	29	2	25	65
October,	13	56	2	22	93
November,	8	65	5	26	104
December,	21	97	12	49	179
Totals,	116	637	43	298	1,094

15.4% positives.

TYPHOID FEVER.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals.
Positive	0	0	0	0	0	3	1	2	1	0	0	0	7
Negative	4	2	0	0	0	4	3	4	5	5	2	2	31
Doubtful	0	0	0	0	0	2	1	4	3	0	0	0	10
Totals	4	2	0	0	0	9	5	10	9	5	2	2	48

Positives 14.6%.

TUBERCULOSIS.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals.
Positive	4	4	11	4	11	5	7	0	12	3	3	0	64
Not found	24	29	36	19	15	21	18	7	27	18	20	23	257
Totals	28	33	47	23	26	26	25	7	39	21	23	23	321

Positives 20%.

INFANT MORTALITY..

273 (407) deaths occurred of children under one year of age. The available living births returned are 3,407 (3,876) which gives an infant mortality rate of 80.12 (105) per 1000 births, which is the lowest since such records were established. 148 (176) stillbirths occurred. A reference to the infant mortality table shows that 101 (142) babies died during the first week, 58 (87) being premature births; 51 (65) deaths occurred from intestinal disease due chiefly to improper feeding. Of the 51 deaths 43 (43) were bottle-fed babies, 5 (16) breast-fed babies and 3 (6) mixed feedings. The decrease in deaths was in breast-fed babies. The decrease in the number of stillbirths and deaths from premature births offers encouragement for the work which has been carried on in this field of infant welfare, and it is through intensive work in the districts where infant mortality is highest that results will be obtained, and the clinics and conference conducted by the Visiting Nurse Association will be highly valuable to mothers regarding the proper care and feeding of babies.

INFANT MORTALITY—1919.

Months.	Total Under 1 year	AGES.											
		Under 1 day	1-2 days	2-3 days	3 days 1 week	1-2 weeks	2-3 weeks	3 weeks 1 month	1-2 months	2-3 months	3-6 months	6-9 months	9-12 months
January	23	4	..	3	2	..	..	1	2	..	4	3	4
February	28	1	..	4	1	4	4	1	1	2	3	5	2
March	28	4	2	4	5	..	3	2	1	1	1	4	1
April	30	3	..	..	2	1	4	2	1	1	6	6	4
May	26	4	1	1	2	3	1	1	3	2	2	4	2
June	22	7	4	..	1	2	1	2	..	3	..	2	..
July	32	3	1	1	1	3	..	1	..	3	3	4	2
August	15	4	..	1	1	1	..	1	..	..	5	1	1
September	17	5	1	..	..	2	1	1	1	1	2	1	2
October	20	6	3	1	..	3	..	1	2	1	1	1	1
November	11	1	3	..	2	..	3	..	..	..	1	..	1
December	21	4	3	..	..	3	..	..	2	..	2	1	6
Totals	278	51	18	15	17	22	17	13	13	14	35	32	26
Males	150	29	13	5	10	13	8	9	7	7	20	15	14
Females	128	22	5	10	7	9	9	4	6	7	15	17	12
Totals	278	51	18	15	17	22	17	13	13	14	35	32	26
Classification.													
Measles	1	..	..	..	..	..	..	..	..	..	..	..	1
Scarlet Fever	1	..	..	..	..	..	..	..	..	..	..	..	1
Whooping Cough	2	..	..	..	..	..	..	..	..	..	..	..	2
Diphtheria	1	..	..	..	..	..	..	..	..	..	..	1	..
Influenza	2	..	..	..	..	..	..	..	..	..	..	1	1
Tuberculosis (Pul.)	..	..	..	..	..	..	..	..	..	..	..	..	..
Syphilis	2	..	..	..	..	1	1	..	..	..	..	..	..
Anterior Poliomyelitis	..	..	..	..	..	..	..	..	..	..	..	..	..
Convulsions of Infants	3	..	..	..	..	1	..	..	1	..	1	..	..
Acute Bronchitis	10	..	..	..	..	1	..	..	1	..	2	5	1
Broncho-Pneumonia	25	..	..	..	..	1	1	..	3	6	5	3	6
Pneumonia	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa and Enteritis	51	..	..	..	..	2	2	4	3	7	17	11	5
Congenital Malformations	20	1	4	2	2	1	2	1	1	..	4	2	..
Congenital Debility	23	3	..	1	4	4	3	3	2	..	1	2	..
Premature	75	32	11	8	7	7	7	2	..	..	1	..	..
Other Diseases	57	15	3	4	4	4	1	3	2	1	4	7	9
Totals	278	51	18	15	17	22	17	13	13	14	35	32	26

INFANT MORTALITY.

Maternal Nativity and Ward Residence.

Nativity of Mother.	WARDS.									
	1	2	3	4	5	6	7	8	Non-Resident.	Totals.
Massachusetts	19	11	4	16	2	8	13	10	14	97
Other States	9	12	4	4	1	3	11	7	4	55
Austria	..	4	..	..	..	..	1	4	3	12
Austria Poland	..	1	..	..	..	..	..	..	1	2
British West Indies	..	..	..	2	..	..	..	..	..	2
Canada	3	..	1	..	..	..	1	5	1	11
China	..	1	..	..	..	..	..	..	..	1
England	2	..	..	..	..	..	1	..	1	4
Finland	..	..	..	..	..	..	1	..	..	1
Germany	..	..	..	..	1	..	..	..	..	1
Greece	..	10	..	..	..	..	..	..	..	10
Ireland	2	3	..	3	..	1	..	2	..	11
Italy	2	3	11	2	3	9	..	..	2	32
Nova Scotia	..	2	..	..	..	..	..	1	..	3
Portugal	..	..	..	..	..	..	..	1	..	1
Russia	..	18	1	..	..	..	..	1	..	20
Russia Poland	..	2	..	..	..	..	..	..	..	2
Scotland	..	..	1	..	..	1	..	..	1	3
Sweden	..	..	..	..	..	..	..	1	..	1
Syria	..	3	..	..	..	..	1	..	..	4
Totals	37	70	22	27	7	22	29	32	27	273

INFANT MORTALITY RATE.

Years.	Births, excepting stillbirths.	Deaths under 1 year.	Rate deaths per 1000 births.
1911	2,582	250	96.82
1912	2,876	282	98.05
1913	2,964	295	99.52
1914	3,077	284	92.29
1915	3,268	276	84.45
1916	3,453	311	90.00
1917	3,703	325	87.76
1918	3,876	407	105.
1919	*3,407	273	80.12

*Estimated.

MEDICAL SUPERVISION OF SCHOOLS AND CHILD WELFARE.

The oversight of the physical condition of pupils attending the public and parochial schools is a matter of record from year to year and the relief of defective conditions and ailments interfering with their growth and development represents the nature of the work undertaken by medical inspectors and school nurses. In the execution of these duties the general method of procedure is indicated in the following instructions given for their guidance.

MEDICAL INSPECTORS.

Inspectors will visit the schools under their charge on Monday and Thursday of each week during the school year. They are expected to begin their duties at 9.30 A.M. and devote as much time as may be necessary in the execution of the work.

In case it is impossible for an inspector to make his visit at the stated hour of day, he will notify the principal of the school and arrange for the delayed visit.

Medical inspection is to be taken up in the following order as far as it is possible to do so:—

1. Inspection of children detained by the room teacher or nurse on account of suspected contagious disease.

2. Inspection of all children returning to school after an absence beyond two days. This includes inspection and readmittance cards for all children excluded or absent from school for chicken pox, measles, mumps, whooping cough (see regulation for exclusion), impetigo, and other parasite skin affections. (Children absent or excluded for diphtheria or scarlet fever are only readmitted by the Board of Health.)

3. Inspection of children who are ill and sent to the inspector for diagnosis and advice by the room teacher or nurse. Also reinspection of children previously ordered under treatment.

4. Special daily inspection of children in any schoolroom who have been exposed to diphtheria or scarlet fever by other pupils in the room taken sick with the diseases mentioned. Swabs are to be taken daily from all suspicious throats, and the daily inspection continued until any outbreak of these diseases in any school is controlled. Inspectors will notify the health department office immediately upon the detection of any contagious disease in the public schools. Tuberculosis is included in the list.

5. Physical examination of all children in the public schools, the examination to begin at the opening of the fall session in each year and to be continued regularly until the work is completed. Each examination is to be conducted carefully in order that the record will be of value. The room teacher and nurse are expected to assist the inspector in such manner as may be necessary for the early completion of the work. With such assistance ten to twelve pupils can be examined hourly. Some well regulated method of conducting the examinations should, therefore, be employed if the entire work is to be completed within the prescribed time, and arrangements should be made with the principal of the school for the systematic execution of the work.

All children attending the public schools are required by statute to be vaccinated, with certain exceptions therein provided. Any exemption from vaccination must be made out on blanks furnished, with the reason for exemption stated thereon. No pupil is to be vaccinated by an inspector, officially, without a written permit from the parent or guardian. Inspectors are not allowed to prescribe for or treat any child who may be ill except in an emergency, as it should be taken for granted that every family has its own physician.

A special inspection of the ventilation and sanitary condition of school buildings is to be made and report sent to the office at least once in each month.

Weekly reports are to be made by each inspector on blanks provided for that purpose.

Physical record summary blanks are to be filled out for each room as provided and returned to the Health Department as promptly as possible.

The individual index cards (yellow) are to be preserved and returned to the Department at the close of the school year. These cards are to be systematically used in recording the work of inspection and available for reference by principal or nurses. They are not to be removed from the school building.

The pupil's inspection card (blue) is to be filled out by the inspector and given to each pupil inspected, who returns it to the room teacher. This card informs the teacher and nurse of the condition of the pupil, with instruction concerning the disposition of the case.

NURSES.

Nurses will report for duty at the opening of the morning session and will as far as possible be present during the visits of the inspector, under whose general direction the work will be outlined, but always in co-operation with the principal and room teacher.

Nurses will bear in mind that they have no authority to enter the home of any pupil or to carry out any treatment without permission from the parents. It becomes essential, therefore, to establish friendly relations with the parents and with the many opportunities for demonstrating the value of these visits; this feature of the work will soon be appreciated by those whom it is intended to benefit. Visits to the homes of pupils are to be made for the following general reasons:

a. Children who have been excluded from school.
b. Children who are not receiving requested treatment for parasitic affections.

c. Children without medical care who should receive such attention, but made only after the notification of the need of such attention has been sent to the parents.

d. Eye, ear, and throat cases which are neglected by the parents should be looked after and the importance of suitable treatment impressed upon the parents.

The inspector's and teacher's cards are to be utilized in obtaining information and planning daily work. Daily records are to be made of work performed and weekly reports sent to the office of the Health Department.

In the execution of these duties many indirect and underlying reasons for the ill health of the pupil may be recognized and should be noted. The information thus gained should afford opportunity for tactful instruction in matters pertaining to personal sanitation and hygiene. When in doubt as to proper procedures connected with the work confer with the superintendent of medical inspection.

The inspectors and nurses who have been absent on military service resumed their work during the year and the efficient manner in which the temporary appointees carried on the work during their absence is worthy of commendation. Malnutrition is present in a small percentage of the total number of pupils and is a condition deserving more attention in the future than has been given it in the past. A good beginning was made during the summer vacation, however, and a nutrition class was formed in the East Union School District. Malnutrition is very amenable to treatment and the results obtained were very gratifying. Forty children were under observation. Instructions were given the parents as to proper diet and milk supplied to a number of cases. Weekly meetings were held of parents and children and records made of the increase in weight and general improvement. This work should be extended to other schools in the city and the interest shown by private associations and clubs will make the extension of the movement much easier for the Board of Health. Children with enlarged tonsils and adenoids are receiving especial attention through the financial aid furnished by the Teachers' Club. The records show 1888 children needing treatment from these defects and many of them are unable to bear the expense incurred in obtaining the necessary relief. The tables summarize the conditions existing and indicate the scope of the work which is being undertaken and the difficulties which have to be overcome.

GENERAL YEARLY INSPECTION OF SCHOOL CHILDREN 1918–1919.

Number of pupils in rooms examined,	9,338
Number of pupils examined,	8,910
Number of pupils reported with no defects,	2,666
Number of pupils reported with nervous affection,	124
Cardiac diseases reported valvular,	147
Orthopedic defects reported,	151
Enlarged glands (tubercular),	35
Tuberculosis,	2
Defective teeth,	4,036
Enlarged tonsils,	2,909
Adenoids,	2,663

LIST OF DISEASES REFERRED TO MEDICAL INSPECTORS OF SCHOOLS FOR INSPECTION AND DIAGNOSIS TABULATED FROM WEEKLY REPORTS FOR YEAR ENDING DECEMBER 31, 1919.

	1918	1919
I.—Infectious Diseases.		
Diphtheria,	3	4
Scarlet Fever,	4	7
Measles,	90	6
Mumps,	184	9
Whooping Cough,	21	10
Chicken Pox,	34	75
Tuberculosis,	0	0
Influenza,	94	27
Other Diseases,	17	1
II.—Diseases of Oral and Respiratory Tract.		
Acute Pharyngitis,	298	176
Acute Tonsilitis,	145	165
Chronic Hypertrophic Tonsils,	60	356
Acute Rhinitis,	235	196
Defective Nasal Breathing,	24	87
Adenoids,	32	228
Other Diseases,	62	75
III.—Diseases of Eye and Ear.		
Acute Otitis Media,	7	9
Chronic Otitis Media,	13	13
Other Diseases of Ear (defective hearing excluded),	10	19
Blepharitis,	40	54
Acute Conjunctivitis,	78	75
Other Diseases of Eye (defective visions excluded),	125	72
IV.—Diseases of the Skin.		
Acne,	17	8
Boils,	45	51
Dermatitis,	84	196
Eczema,	72	97
Erythema,	30	43
Herpes,	106	241
Impetigo Contagiosa,	624	383
Pediculosis,	201	346
Scabies,	58	81
Tinea,	19	22
Other Affections,	194	262

V.—Miscellaneous.	1918	1919
Abscesses and Ulcers,	115	171
Contusions and Injuries,	494	513
Cardiac Diseases,	6	7
Fever,	86	25
Gastric and Intestinal,	45	82
Pulmonary Diseases,	31	37
Tubercular Lymph Nodes,	2	3
Other Diseases not classified,	906	1,213
Malnutrition,	11	28

Summary.

Specific and Infectious Diseases,	447	139
Oral and Respiratory Diseases,	906	1,283
Diseases of the Ear,	30	201
Diseases of the Eye,	143	41
Diseases of the Skin,	1,450	1,730
Miscellaneous Diseases,	700	866
Unclassified,	906	1,213
No disease found,	1,060	1,151
Number of first examinations,	5,732	6,624
Number of re-examinations,	3,537	5,380
Total number of examinations,	9,269	12,004
Vaccinations,	718	2,787
Total number sent home,	587	390

SCHOOL NURSES.

That division of child welfare work pertaining to school children especially, where the best opportunities are offered for the formation of health habits and removal of defective conditions, is continually enlarging through the work of the School Nurses. The variety of work performed and results obtained indicate the great value of intensive work confined to limited areas by those assigned to various schools. Confidence in the advice given and consequent willingness to carry out instructions naturally come from the personal acquaintance established between the nurses and parents and are important factors in procuring results. It is therefore necessary that compensation for such services should be sufficient to retain the nursing force intact and be able to increase it as the development of the work demands.

REPORT OF SCHOOL NURSES FOR THE YEAR ENDING DECEMBER 31, 1919.

	No.	Cured.	Under Observation.	Refused Treatment.	Other Care, Moved.
Skin Diseases,	1,787	1,744	41		2
Parasitic Affections,	1,840	1,693	132		15
Chronic Enlarged Tonsils,	2,922	643	1,888	12	379
Adenoids,	2,747	640	1,719	11	377
Defective Vision,	1,018	335	578	1	104
Other Eye Affections,	700	676	24		
Defective Hearing,	76	39	26		11
Tuberculous Disease,	5	4	1		
Heart Disease,	72	20	52		
Orthopedic,	41	25	16		
Defective Teeth, etc.,	1,587	335	1,131	6	115
Miscellaneous,	5,602	5,575	24		3
Totals,	18,397	11.729	5,632	30	1,006

New cases visited,	4,302
Total visits, new and old,	6,654
Total treatment at homes,	656
Total treatments at school,	11,463
Inspections (school),	28,191
First aid and dressings (school),	12,391
Visits to M.D., Hospital, etc.,	200
Exclusions, Communicable diseases,	55
Influenza,	100
Mumps,	8
Pink Eye,	4
Chicken Pox,	111
Scarlet Fever,	24
Diphtheria,	18
Measles,	6
Whooping Cough,	76
Pneumonia,	10
German Measles,	6
Typhoid Fever,	2
Tonsilitis,	2
Goiter,	2
Discharging Ear,	1
Nasal Diphtheria,	1
Pediculosis,	4
Itch,	1
Impetigo,	2
Visits to opticians,	12

HOME HELPERS' LEAGUE.

The meetings of the league are held weekly during the summer vacation of the schools and the members are selected from the different schools by the School Nurses. The interest which is shown by the members in the talks and demonstrations given regarding the care of babies and personal hygiene from year to year has been of great value in fitting these girls for intelligent oversight over their own families and homes. A very

enjoyable playlet was given by the members of the league at the Hooker School based on the demonstration given during the summer on the proper care and feeding of the baby and was much enjoyed by a large and appreciative audience.

Talks and demonstrations at meetings,	82
Number of home demonstrations,	86
Cases of sick babies reported by members,	22
Visits made on cases reported by members,	82
Poor sanitary conditions reported by members,	8
Whooping cough cases reported by members,	4
Cases sent to hospitals for treatment,	7
Children fitted to glasses,	6
Children had glasses changed,	7
Operations for tonsil and adenoid cases,	69
Calls made for tonsil and adenoid cases,	953
Visits to doctors,	14
Visits to hospitals,	5
Curvature of spine cases visited,	3
Curvature of spine cases (casts on),	2

DENTAL DISPENSARIES.

The second dental clinic is located in the new Hooker School Building and began operations with the fall opening of the schools. It is intended to provide dental care for the schools in that portion of the city and is conducted on the same general plan as the clinic in the Howard Street School which is now in operation. The work includes cleaning, extraction, and filling, if necessary, of temporary teeth, with toothbrush drills and repeated talks as to the value of clean teeth and daily care to prevent decay. It is one of the most important divisions of child welfare work in the schools and as time elapses the results should be evident in the lessening of the number of children with defective teeth and general improvement in health. The total number of children treated since the opening of the clinic is 808 and the different operations and treatments given to this number is tabulated in the following summary:—

SUMMARY OF WORK PERFORMED AT DENTAL DISPENSARIES.

(Howard Street 10 Months.)
(Hooker School 3 Months.)

Total number cases examined and treated,	806
Number new cases during year,	576
Number return visits,	842
Number discharged,	585
Number dropped,	14

Number cleaning (cases),	575
Number extractions teeth (temporary),	1,802
Number extractions teeth (permanent),	222
Number of treatments,	628
Number fillings (temporary),	117
Number fillings (permanent),	441
Abscesses and other work,	198
Gas,	118
Local anæsthetic,	1,044
Number visits at homes (assistants),	842
Talk and demonstrations,	392

MILK.

The conditions surrounding the production, delivery, and sale of milk change from year to year and its supervision requires continual watchfulness. Not only the quality, which is established by law as regards fats and solids, is subject to chemical and bacteriological examinations, but the methods used at the dairies and the care which it receives until it reaches the consumer are subject to repeated inspection, recommendations, and requests based on the rules and regulations governing the production and care of milk in the city. Many dairy farms change ownership and the new proprietor is often unacquainted with the methods which are essential for the production and care of milk, and much patience and time is used in securing the necessary compliance with the regulations. A large percentage of milk is produced at near-by dairies, but some 8,500 quarts are received daily from New York and Vermont dairies. There is an average daily consumption of 70,000 quarts of milk and 5,500 quarts of cream. Of this amount over 23,000 quarts are sold daily by stores in bottles only. 4,500 quarts are sold by restaurants. Five dealers have discontinued business during the year and 75 dairies discontinued sending milk to Springfield. A marked improvement has been noticed in the cleanliness of the milk supply, as shown by the sediment tests. The sediment cottons are preserved and graded and become good object lessons in securing improvement in dairies which are negligent in their methods.

Of the sample used for bacteriological examination 80% shows a count of less than 100,000 per C. C. The milk supply of the city shows an average butter fat content of 3.7% and total solids of 12.46%, which is well above the standard. 90% of the milk used is pasteurized and chiefly sold in bottles, loose milk being used only in restaurants and hotels. Some difficulty is experienced in the dispensation of milk in restaurants as sufficient attention is not given to prevent the separation of the cream in the container, and unless care is exercised milk is dispensed below the standard from failure to keep the milk well stirred or mixed. The serving of milk

in individual bottles should be adopted by all restaurants and the present unsatisfactory methods abolished.

Pasteurization is a definite advance in the methods of handling and delivering safe and sweet milk to the consumer and the danger of contamination and transmission of disease in milk is reduced to a minimum. With the regulations pertaining to the process of pasteurization the quality and value of milk so treated are not changed.

Ice cream is required by statute to contain 7% butter fat, and the average percentage of fat in all samples analyzed was 12.3%. The work performed by the inspector of milk and the milk chemist and bacteriologist is summarized in the following table, indicating the careful supervision which is exercised over the milk supply of the city:—

SUMMARY OF WORK PERFORMED IN THE DAIRY DIVISION, 1919.

	1918	1919
Estimated number of quarts sold daily in Springfield,	66,300	70,238
Estimated number of quarts sold daily in city from near-by dairies,	60,200	61,688
Estimated number of quarts sold daily in city from New York and Vermont dairies,	6,300	8,550
Estimated number of quarts of cream sold daily in city,	5,000	5,500
Number of licenses issued for sale of milk,	670	821
Number of registrations for sale of oleomargarine,	237	290
Number of near-by dairies sending milk to Springfield,	704	508
Number of New York and Vermont dairies sending milk to Springfield,	247	300
Number of changes made by dealers in source of supply,	329	309
Number of dairy milk houses built,	60	21
Number of dairy barns built,	5	8
Number of barns remodeled,	20	7
Number of inspections made of dairies,	1,151	1,053
Number of inspections made of stores and restaurants,	1,290	1,356
Number of inspections made of milk wagons and rooms,	570	450
Number of inspections (total),	3,011	2,859
Number of samples collected at milk plants,	1,312	2,286
Number of samples collected at trains,	90	36
Number of samples collected at stores,	100	250
Number of samples collected from wagons,	300	260
Number of samples brought to laboratory,	516	818
Number above Mass. standard,	1,900	2,714
Number below standard,	418	900
Number below standard in solids and fats,	314	541
Number below in solids,	418	900
Number below in fats,	314	541
Number of samples analyzed (total),	2,318	3,614
Number of samples of skimmed milk analyzed,	10	15
Number of samples of buttermilk analyzed,	2	5
Number of prepared milk and cream analyzed,	60	124
Number of samples plated for bacterial examination,	243	276
Number of refractions for presence of added water,	50	192
Number of microscopic examinations,	150	205
Number of samples containing added water,	25	85
Number of prosecutions,	3	4

	1918	1919
Number of samples having bad flavor,	40	60
Number of slimy milk and cream samples,	10	4
Number of bitter milk samples received and examined,	9	5
Number of samples showing skimming,	41	80
Number of protein examinations,	40	50
Number of oleomargarine samples examined,	12	15
Number of butter samples examined,	15	20
Number of sediment tests for dirty milk,	300	380
Number of cows tested for producers,	132	215
Number of cards and notices,	1,250	1,161
Number of samples of vinegar tested,	69	34
Number below in vinegar solids,	17	8
Number below in total acids,	6	3

SUMMARY OF MILK BACTERIA COUNTS.

		1918		1919
Number of samples with 10,000 and under,	84	34.5%	71	25.7%
Number of samples between 10,000 and 20,000,	29	11.9%	36	13. %
Number of samples between 20,000 and 50,000,	47	19.3%	39	14. %
Number of samples between 50,000 and 100,000,	35	14.4%	25	9. %
Number of samples between 100,000 and 200,000,	17	7. %	19	6.9%
Number of samples between 200,000 and 500,000,	12	4.9%	25	9. %
Number of samples with not more than 10,000,	84	34.5%	71	25.7%
Number of samples with not more than 100,000,	195	80.2%	171	62. %
Number of samples with not more than 500,000,	224	90.9%	213	77.3%

ICE CREAM ANALYSIS.

	1918	1919
Number of samples taken,	150	144
Number of wholesale dealers,	10	9
Number of dealers who purchase ice cream,	40	36
Number of dealers who manufacture ice cream,	44	33
Number of samples above standard,	138	134
Number of samples below standard,	12	10
Highest per cent of fat,	21.40%	23.75%
Lowest per cent of fat,	4.75%	5.20%
Average per cent of fat,	10.90%	12.30%

FOOD INSPECTIONS.

Meat and Provisions.

The Inspector of Meats and Provisions makes an inspection of all markets selling meats and provisions every two weeks. The larger markets are inspected three times weekly and all wholesale houses once a week. There has been cause during the year to condemn the following list given in pounds of meats, fruits, and vegetables:—

Meats.

Beef,	3,801	Roast lamb,	5
Veal,	92	Roast pork,	2
Lamb,	25	Corned beef,	2
Pork,	127	Porked ham,	1½
Hamburg,	3	Liver,	10
Ham,	16	Pigs' feet,	25
Sausage,	5	Tripe,	25

Fruits.

1 crate peaches

2,800 pounds grapes in 324 boxes

Vegetables.

2 boxes cucumbers

3 bunches asparagus

1½ dozen heads lettuce

Fish.

1 can lobster
1½ pints clams
1 pint shrimps

15 fish (assorted)
75 cans salmon
12 cans sardines

Sundries.

2 bottles olives
10 pounds butter
6 pounds lard
313 cans evaporated milk
17 cans dill pickles
16 cans pork and beans

29 cans condensed milk
38 cans peaches
17 cans pineapple
12 cans cherries
4 cans asparagus tips
1 can jelly

SLAUGHTERING INSPECTION.

The carcasses of 10 beef, 72 veal, 859 hogs, and 1 sheep were examined, and of that number two hogs heads were condemned for tuberculosis, 1 hog for peritoneal tuberculosis, 3 immature veal from other states, 2 hogs with jaundice. The slaughtering is carried on chiefly at the farms where the animals are owned and without proper facilities for such work. A central slaughter house provided by the city would be a most desirable method of controlling and supervising the slaughtering of all animals used for food consumption.

VITAL STATISTICS.

The population has been estimated from 114,792 to 135,532. As in previous years an average of the estimates has been taken which gives a population of 127,441. The gross mortality rate estimated on the above figures is 13.69 (20.53) per 1000 population. There were 270 (350) non-resident deaths which makes the actual mortality rate 11.57 (17.72) per 1000 population. 105 (80) deaths were caused by accidents of various kinds: motor cars 24 (23); trolly cars 6 (1); railroads 10 (9); accidental inhalation of illuminating gas 6 (3); deaths by falling 23 (13); burns 13 (13); drowning 11 (3); miscellaneous 7 (12); 22 deaths occurred from

wood alcohol poisoning, 17 being non-resident deaths brought to the hospital for treatment. 246 (374) resident deaths occurred in children under one year of age. The tables contained in the report are compiled from the records of the department and, with the classification of the diseases causing death, constitute the vital statistics for the year.

Comparative tables are introduced covering a period of years and give valuable information regarding the direction in which health department activities should be directed in the future.

BIRTHS, DEATHS, STILLBIRTHS AND MARRIAGES WITH POPULATION AND RATES PER 1,000 OF POPULATION.

Years	Population	Births, Stillbirths excluded	Deaths, Stillbirths excluded	Stillbirths	Marriages	Birth Rate	Death Rate	Marriage Rate
1900	*62,059	1,562	1,143	49	640	25.16	18.41	10.31
1901	64,412	1,527	933	49	642	23.73	14.48	9.96
1902	66,854	1,681	1,025	49	701	25.14	15.33	10.48
1903	69,389	1,758	1,100	53	726	25.33	15.85	10.46
1904	72,020	1,682	1,149	72	686	23.35	15.95	9.52
1905	*73,540	1,879	1,120	71	800	25.55	15.22	10.87
1906	76,255	1,863	1,136	69	934	24.43	14.89	12.24
1907	78,707	2,061	1,302	63	1,156	26.18	16.54	14.68
1908	81,425	2,219	1,334	82	943	27.25	15.03	11.58
1909	84,237	2,371	1,309	65	1,064	28.14	15.53	12.63
1910	*88,926	2,562	1,481	94	1,170	28.81	16.65	13.15
1911	92,048	2,582	1,412	104	1,274	28.05	15.33	13.84
1912	96,973	2,876	1,445	95	1,147	29.65	14.90	11.82
1913	100,877	2,964	1,464	100	1,260	29.38	14.51	12.49
1914	104,949	3,077	1,521	146	1,226	30.71	14.49	11.68
1915	*102,971	3,268	1,511	115	1,185	31.73	14.67	11.50
1916	106,365	3,453	1,741	131	1,554	32.46	16.36	14.61
1917	117,058	3,703	1,865	159	1,680	31.63	15.93	14.35
1918	124,409	3,876	2,555	176	1,372	31.15	20.53	11.02
1919	127,441	**3,407	1,745	148	1,560	26.73	13.69	12.24

*Official. **Estimated.

COMPARISON OF DEATHS FROM PRINCIPAL DISEASES IN PERCENTAGES PER 1,000 POPULATION, BY YEARS.

	1914	1915	1916	1917	1918	Average 1914–1918 inc.	1919
Anterior Poliomyelitis,....	.019	.029	.206	.068	.000	.064	.000
Apoplexy,.....	.943	.854	.967	.854	.955	.914	.909
Bright's Disease (chronic),.	1.791	1.407	1.763	1.383	1.429	1.554	1.340
Cancer,.....	.886	1.068	1.099	1.007	.971	1.006	1.042
Diphtheria,.....	.123	.097	.169	.546	.248	.236	.196
Diabetes,.....	.152	.242	.253	.239	.16	.209	.141
Enteritis (under 2 yrs.),...	.79	.747	.798	.734	.666	.747	.478
Heart Disease,.....	1.305	1.640	1.691	1.819	1.766	1.644	1.144
Measles,.....	.085	.029	.131	.051	.104	.08	.015
Pneumonia,.....	.924	.980	1.249	1.059	1.461	1.134	.603
Scarlet Fever,.....	.009	.009	.028	.051	.024	.024	.023
Tuberculosis (pulmonary),	.886	.786	.620	.854	.995	.828	.729
Typhoid Fever,.....	.209	.106	.046	.059	.032	.09	.047
Whooping Cough,.....	.019	.174	.018	.025	.289	.105	.023
Suicides,.....	.104	.155	.150	.093	.056	.111	.133
Traumatism,.....	.340	.640	.629	.649	.441	.539	.548
Homicides,.....	.019	.029	.056	.042	.032	.035	.047

TABLE SHOWING MORTALITY IN PERCENTAGES PER 1,000 INHABITANTS FOR ALL DISEASES AT DIFFERENT AGE PERIODS, BY YEARS.

Age Period.	YEARS.						
	1914	1915	1916	1917	1918	Average 1914–1918 inc.	1919
Under 1	2.706	2.680	2.922	2.775	3.268	2.870	2.140
1	.428	.582	.638	.538	.706	.578	.407
2	.161	.232	.187	.204	.369	.230	.211
3	.066	1.45	.216	.145	.216	.418	.133
4	.057	.058	.131	.128	.200	.114	.101
5-9	.238	.194	.338	.649	.465	.376	.344
10–14	.238	.233	.225	.316	.216	.245	.141
15–19	.285	.301	.300	.239	.586	.342	.297
20–29	1.019	.990	1.061	1.246	2.890	1.441	1.176
30–39	1.352	1.048	1.569	1.332	2.947	1.649	1.364
40–49	1.448	1.485	1.475	1.665	1.702	1.555	1.458
50–59	1.666	1.776	1.616	1.725	1.846	1.725	1.646
60–69	2.	1.796	2.461	1.964	1.951	2.034	1.748
70–79	1.8	1.980	2.067	1.802	1.943	1.918	1.630
Over 80	1.019	1.174	1.146	1.195	1.204	1.147	.878

Respectfully submitted,

PHILIP V. ERARD,
EDGAR H. GUILD, M.D.,
GEORGE L. SCHADT, M.D.,
Board of Health.

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BRIEF FINANCIAL STATEMENT FOR 1919

Total Appropriation.	Total Expenditures.	Surplus Balance to Contingent.
$92,415.91	$92,011.04	$404.87

BOARD OF HEALTH.

Salaries:	
Agent,	$2,274.96
Health Physician,	2,249.97
Chief Clerk,	1,224.99
Office Clerks (3),	1,849.88
Department Nurse,	974.97
Chief Sanitary Inspector,	1,849.98
Sanitary Inspectors (5),	7,685.60
Milk Inspectors (2),	3,399.90
Inspector of Meats and Provisions,	1,200.00
Inspector of Slaughtering,	300.00
Dispensary Clerk and Visitor,	1,024.95
Tuberculosis Nurse,	358.31
Printing,	242.08
Transportation,	537.58
Disinfectants,	190.74
Laboratories,	2,007.65
Tuberculosis Dispensary,	790.39
All other,	1,093.42
	$29,255.37

HEALTH DEPARTMENT HOSPITAL.

Matron,	$1,158.31
Nursing,	6,085.52
Cooks, Ward Maids and Orderlies,	5,474.73
Heat, Light, Fuel,	8,245.88
Provisions,	12,873.00
Medical and Surgical Supplies,	1,684.20
Furniture, Dry Goods and Household Supplies,	1,169.49
*All other,	10,674.14
	$47,365.27

*Includes $6,151.87 paid for treatment in other hospitals.

MEDICAL INSPECTION OF SCHOOL CHILDREN.

Inspectors (13),	$6,200.00
Nurses (5),	5,058.18
School Dentists (2),	1,006.60
Dentist's Assistant and Clerk of Clinic (2),	1,065.48
Printing,	117.51
Transportation,	249.09
Dental Clinics,	1,490.64
All other,	202.90
	$15,390.40

BUILDING DEPARTMENT.

TENTH ANNUAL REPORT

OF THE

BUILDING DEPARTMENT

To the Honorable City Council of the City of Springfield, Mass.

GENTLEMEN:—The building activities in Springfield for the year nineteen hundred and nineteen have far exceeded our most sanguine expectations. A year ago all local building work was practically at a standstill. But as soon as the building restrictions—imposed at that time by the "War Board"—were removed, operations were renewed, slowly at first, but gradually increasing until the month of May, when permits were issued for buildings and additions to cost more than half a million dollars. Since then work has been started each month to cost in excess of that amount. During the year permits have been issued for building operations to cost $5,883,160.

The future is full of promise, even though the cost of labor and materials has reached a high level undreamed of a short while ago.

There must be no lowering of the standard because of high prices. Accommodations that served and were popular a few years back are no longer acceptable, nor are they to be desired. If we are to have competent and contented workmen and assistants, suitable houses and living conditions should be provided for them or, better still, they must be urged and encouraged in every possible way to build and possess homes of their own. This should be attempted with patience and fortitude, and if all that is desirable cannot be accomplished, we must see that nothing reactionary is done or permitted to obtain that will mar or hinder advancement in this direction. Municipalities will sometime be called upon to foster and provide utilities for such enterprises.

During the year, there have been erected one hundred nineteen (119) two-family houses and two hundred sixty-one (261) single houses.

BUILDING OPERATIONS BY THE CITY OF SPRINGFIELD, MASS.

The city as a corporation has done a very creditable amount of building for its citizens. Three important additions to school buildings are now nearing completion. These and other minor operations have been erected at a total cost of $591,291.

TABLE SHOWING THE ABOVE WORK IN DETAIL.

Ward 5—Summer Street,	Trestle,.....	$11,000
Ward 7—Oakland Street,	Moving Portable School,.	200
Ward 6—Pecousic Avenue,	Alteration—Storage,.....	600
Ward 4—Summer Street,	Alteration—Garage,.....	600
Ward 3—Court Street,	Alteration—City Hall,...	400
Ward 8—Homer Street,	Alteration—School,.....	800
Ward 3—Spring Street,	Alteration—Club House,.	800
Ward 8—Colton Street,	Elevator,.....	11,871
Ward 8—Washington Street,	Alteration—School,.....	2,850
Ward 7—Oakland Street,	Addition—School,.....	295,000
Ward 8—Parker Street,	Alteration—School,.....	1,000
Ward 3—Court Street,	Alteration—City Hall,...	1,050
Ward 2—Chestnut Street,	Addition—School,.....	125,120
Ward 2—Chestnut Street,	Alteration—School,.....	350
Ward 8—Homer Street,	Addition—School,.....	121,000
Ward 6—Mill Street,	Addition—Fire Station,..	18,650
Total,.....		$591,291

DANGEROUS BUILDINGS.

Seven buildings were found to be in a dangerous condition. The owners were notified, and the defects have all received prompt attention.

HOTELS AND LODGING HOUSES.

In compliance with Chapter 655, Acts of 1913, this Department examined twenty-three (23) hotels, and forty-four (44) lodging houses, and a report of their condition was sent to the State District Police. The buildings examined contained a total of three thousand five hundred thirty-five (3,535) rooms.

ELEVATORS.

Seven hundred (700) elevators are now in use in this city. Their general condition is very good. Some are in need of repairs or minor

changes, and it is expected that practically all will be made worthy of a certificate during the coming year.

Three hundred ninety-one (391) certificates have been issued.

Two hundred seventy-four (274) operators' licenses have been granted. Sixty (60) of these were issued to women.

Nine (9) old elevators have been removed, twenty-three (23) new ones have been completed, and four (4) are now being installed.

There were seven (7) accidents to persons in elevators or elevator shaftways. Some of these were serious and painful, but none of them was fatal. In no case could an accident be attributed to ignorance. They were due to somebody's negligence or carelessness.

FIRE ESCAPES.

One hundred twenty-four (124) fire escapes were examined. Ten (10) of these were in need of repairs or painting. The owners were notified.

SIGNS.

The City Council has granted one hundred forty-six (146) permits for the placing of signs to project over public ways. Fifty-one (51) of these were for new locations, and ninety-five (95) were for the renewals of old permits.

The Building Department has issued fifty (50) permits for signs on private property. Twenty-seven (27) of the signs thus permitted were placed flat against the buildings,—six (6) were projecting, five (5) were roof signs, and twelve (12) were illuminated.

ELECTRICAL INSPECTIONS.

Seven thousand three hundred thirty-six (7,336) inspections of electrical equipment and apparatus were made during the year.

Three thousand one hundred forty (3,140) permits to perform electrical work have been issued to two hundred three (203) contractors and others.

Permits for the installation of one thousand three hundred ninety-five (1,395) service meters have been issued to the United Electric Light Co., including a few to individual owners.

PLUMBING.

The work of laying the glazed earthen drains which extend from the outside wall of all buildings where plumbing fixtures are installed, to the street sewer, should be regulated in some manner.

At the present time such drains can be laid by any person. To be sure they are inspected, but this does not suffice to get every detail as it should be.

Inspectors sometimes find that the outlet is higher than some other part of the drain, so that instead of serving its purpose as a drain, the sewage accumulates in the low portion and gradually but eventually obstructs the passage, and consequently the drain has to be dug up and relaid.

In some instances lime mortar has been substituted for cement mortar.

Sometimes the use of the drain is permitted before the cement has had time to harden. This causes the cement to be washed out of the joints, after they are concealed, with the result that the sewage runs out and contaminates the soil while tree roots are allowed to find their way into the drain through the open joints. The tree roots grow and fill the drain, completely blocking the passage. The sewage in such cases backs up and overflows into the building, and expensive repairs have to be made.

These troubles could be avoided and the work regulated by an ordinance which would permit such work to be performed by experienced drain-layers only, with the stipulation that all such be registered with the Building Department, the Department to have power to cancel any registration for cause.

THE TABLES.

Following are tables which show the building activities for the year 1919:—

BUILDING PERMITS GRANTED

From Jan. 1 to Dec. 31, 1919.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Bakery and Stores								1					1
Business Buildings								1		1			2
Church									1				1
Factories			1				3	2		3		1	10
Garages	9	13	31	65	54	54	38	56	51	42	32	17	462
Houses—two family	2	4	7	3	18	14	12	10	9	11	21	8	119
Houses—one family	11	5	6	20	26	31	34	24	23	25	30	27	262
Ice Buildings									1	1	2		4
Offices							1		1				2
School											1		1
Shops				3	1	2	1	1	1	3	1		13
Stables		1		3			2	1			2		9
Storage Buildings	3	3	7	13	7	5	3	4	7	6	8		66
Stores		2	3	1	3	1	2	2	3	1	2	3	23
Stores and Tenements						1					1	1	3
Tenements			1	3	2	1	4	5	2		2		20
Warehouse										1			1
Miscellaneous		2		1	3	3	1	5	1	4		3	23
Additions and Alterations	36	34	62	76	66	51	57	58	33	42	32	24	571
Totals	61	64	118	188	180	163	158	170	133	140	134	84	1,593

ESTIMATED COST OF NEW BUILDINGS

From Jan. 1 to Dec. 31. 1919.

WARD	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Totals
1		$3,000	$775	$25,655	$68,925	$32,700	$87,260	$18,435	$43,467	$26,300	$30,850	$33,350	$370,717
2	$150	23,200	6,350	112,650	25,000	18,729	8,450	113,600	5,950	35,900	300		350,279
3		3,500	1,000	375	1,130	34,000	100,000		10,000		208,060		358,065
4	1,650		800	1,500	3,550	17,225	23,390	4,575	104,250	1,400	30,475	1,375	190,190
5	800	3,050	9,800	23,530	1,540	11,700	11,500	40,300	1,700	42,100	10,850	16,400	173,270
6		870	41,000	23,400	26,450	27,300	38,575	96,500	13,600	83,175	3,950	450	355,270
7	21,500	17,900	21,175	53,750	68,165	108,065	89,250	99,900	90,150	99,600	135,200	125,150	929,805
8	22,350	14,875	28,127	43,960	123,765	91,500	219,925	66,425	105,800	71,795	149,425	108,250	1,046,197
Totals	$46,450	$66,395	$109,027	$284,820	$318,525	$341,219	$578,350	$439,735	$374,917	$360,270	$569,110	$284,975	$3,773,793

NOTE:—In addition to the above, "Verbal Permits" have been granted (and recorded) for 155 building operations, costing less than $25 each and aggregating $3,315.

COMPARATIVE STATISTICS

Table showing the comparative number and cost of building operations since the creation of the Building Department.

	New Buildings	Cost	Additions and Alterations	Cost	Total Costs
1910*	194	$1,410,892	89	$83,043	$1,493,935
1911	704	4,230,140	505	665,823	4,895,963
1912	870	5,507,434	619	785,060	6,292,494
1913	763	4,259,378	566	788,087	5,047,465
1914	851	4,020,873	641	1,035,369	5,056,242
1915	936	5,529,357	559	532,824	6,062,181
1916	1,122	6,258,980	573	842,052	7,101,032
1917	748	2,834,457	451	945,155	3,779,612
1918	366	756,085	421	842,338	1,598,423
1919	1,022	3,773,793	571	2,106,052	5,879,845

*For three months only (Oct., Nov., Dec.).

ESTIMATED COST OF ADDITIONS AND ALTERATIONS

From Jan. 1 to Dec. 31, 1919.

WARD	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Totals
1	$2,700	$7,600	$800	$6,450	$129,450	$37,000	$6,900	$2,700	$2,100	$24,700	$1,600	$1,950	$223,950
2	1,700	2,200	5,490	3,800	33,400	185,770	1,310	7,025	32,000	5,000	775	1,000	279,470
3	39,585	18,080	5,435	34,380	9,055	38,500	34,000	173,290	16,940	24,310	8,950	510,250	912,775
4	600	850	4,200	2,000	575	1,300	8,990	9,950	2,225	1,500	4,500	2,100	38,790
5	2,125	3,550	5,525	2,100	4,905	600	2,055	5,716	1,000	4,275	225	1,200	33,276
6	1,700	3,000	350	7,625	4,025	21,550	550	29,000	8,100	650	850	500	77,900
7	950	4,250	5,950	5,820	375	297,950	15,460	6,875	100	5,250	150	3,200	346,330
8	1,700	1,125	3,140	18,760	20,746	3,975	128,925	2,265	650	6,200	3,075	3,000	193,561
Totals	$51,060	$40,655	$30,890	$80,935	$202,531	$586,645	$198,190	$236,821	$63,115	$71,885	$20,125	$523,200	$2,106,052

BUILDING OPERATIONS—BY WARDS

	Wards								
	1	2	3	4	5	6	7	8	Totals
Bakery and Stores								1	1
Business Buildings		2							2
Church		1							1
Factories	1	1			1	4		3	10
Garages	52	31	6	31	40	43	137	122	462
Houses—two-family	17	3			2	3	50	44	119
Houses—one-family	11				3	2	122	124	262
Ice Buildings				1				3	4
Offices			1					1	2
School			1						1
Shops	1			1	2	1	1	7	13
Stables	1			1	1			6	9
Storage Buildings	10	3	2	4	6	3	15	23	66
Stores	1	2	2	2	4	2	5	5	23
Stores and Tenements					1	1	1		3
Tenements	3	1	3	1	8			4	20
Warehouses					1				1
Miscellaneous			3	4	7	1	1	7	23
Additions and Alterations	82	69	104	61	55	62	57	81	571
Totals	179	113	122	106	131	122	389	431	1,593

CLASSIFICATION OF BUILDINGS

	Number		Cost	
	Fire Resisting	Wood	Fire Resisting	Wood
Bakery and Stores	1		$10,000	
Business Buildings	2		126,000	
Church	1		30,252	
Factories	9	1	196,500	$100,000
Garages	240	222	428,909	58,605
Houses—two-family		119		593,500
Houses—one-family	1	261	2,400	1,006,775
Ice Buildings		4		102,300
Offices	2		47,000	
School	1		160,000	
Shops	6	7	80,700	1,700
Stables		9		2,335
Storage Buildings	14	52	33,755	29,552
Stores	11	12	69,200	17,750
Stores and Tenements	2	1	80,000	6,000
Tenements	11	9	450,000	62,500
Warehouse	1		25,000	
Miscellaneous	15	8	33,210	19,850
Additions and Alterations	176	395	1,910,581	195,471
Totals	493	1,100	$3,683,507	$2,196,338

INSPECTIONS BY THE BUILDING INSPECTORS

Table showing number of inspections each month, and for what purpose.

	New Buildings	Additions Alterations	Specials	Fires	Fire Escapes	Totals
January	112	85	29	4		230
February	153	94	30	3		280
March	255	126	28	1		410
April	193	71	101		118	483
May	295	165	59	1		520
June	303	110	50	1	1	465
July	296	78	19			393
August	418	81	41	1		541
September	162	52	24			238
October	356	69	20	2	5	452
November	344	55	35			434
December	338	92	31	1		462
Totals	3,225	1,078	467	14	124	4,908

VIOLATIONS REPORTED AND CORRECTED

Building without a permit	46
Defective construction	23
Dangerous buildings	7
Dangerous chimney	3
Flue lining omitted	4
Woodwork placed against chimney	12
Omission of fire stops	6
Lathing without notification or permission	6
Heater installed without permit	14
Omission of shields over heaters and smoke pipes	26
Woodwork too near heater and smoke pipe	4
Fire doors omitted	1
Omission of ladder to roof scuttle	1
Miscellaneous	125
Totals	278

NUMBER OF STEAM BOILERS INSTALLED

From Jan. 1 to Dec. 31, 1919.

	Wards								
	1	2	3	4	5	6	7	8	Totals
January			1	3				5	9
February	1		1		1		2		5
March							2	8	10
April			1				4	5	10
May	2				7	1	12	2	24
June	1	1			1		18	31	52
July	12		2	1	2	2	20	18	57
August	4	1	1	2	6	1	8	7	30
September	6	2		1	1	2	9	6	27
October	2	3	1	1	2	1	10	9	29
November	4	1		1	1		20	21	48
December	14	3		3	2	1	15	10	48
Totals	46	11	7	12	23	8	120	122	349

NUMBER OF HEATING FURNACES INSTALLED

From Jan. 1 to Dec. 31, 1919.

	Wards								
	1	2	3	4	5	6	7	8	Totals
January	1	1	2	3		1	4	7	19
February	2						3	4	9
March	1						2		3
April								2	2
May					1				1
June								1	1
July	5			1			4	2	12
August		1							1
September								1	1
October									
November	2	4	1	2	1	2	1	1	14
December									
Totals	11	6	3	6	2	3	14	18	63

Note:—Permits have been granted for the installation of seven bake ovens

ELEVATOR INSPECTIONS

From Jan. 1 to Dec. 31, 1919.

	Hydraulic Passenger	Hydraulic Freight	Electric Passenger	Electric Freight	Hand Power	Dumb Waiter	Belt Elevators	Special Inspections	Totals	Written Reports	Defective Elevators
January....	10	13	8	9	1	5		12	58	66	31
February...	10	20	13	7	1	9	19	23	102	103	53
March.....	10	36	8	16	1	12	7	25	115	138	50
April.....	3	39	5	4	6	6	12	34	109	131	45
May.....	4	11	8	17	4	7	3	29	83	68	38
June.....	5	14	4	12		6	20	31	92	107	33
July.....	5	16	6	11	7	23	5	33	106	116	43
August.....		5	3	21	2	1	6	27	65	66	17
September..	10	13	3	18		4	8	33	89	76	30
October....	23	13	13	7	1	11		29	97	97	22
November..	4	11	4	5	2	4	3	37	70	53	22
December..	5	19	4	2	2		4	48	84	47	24
Totals....	89	210	79	129	27	88	87	361	1,070	1,068	408

NOTE:—During the year nine elevators have been removed and twenty-three new elevators installed; seven hundred are now in use, and four are now being installed. Three hundred and ninety-one certificates have been issued.

ELECTRICAL INSPECTIONS

Table showing number of inspections made from Jan. 1 to Dec. 31, 1919.

Inspections	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
New installations	134	130	128	181	238	293	353	304	368	385	338	310	3,162
Old installations	31	23	23	15	21	15	6	4	16	14	11	16	195
Additions and alterations	301	234	289	244	244	190	157	132	188	178	183	158	2,498
Temporary work	6	5	4	5	2	4	2	4	3	2	5	10	52
Fixtures	74	62	61	80	122	124	139	102	161	187	149	148	1,409
New electric signs	1	1	2	1			5	1	1	1	2	5	20
Totals	547	455	507	526	627	626	662	547	737	767	688	647	7,336

Table showing number of defective installations discovered and corrected during the year from Jan. 1 to Dec. 31, 1919.

Defective Installations	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
New installations	38	22	34	36	41	48	59	63	78	92	86	79	676
Old installations	22	19	17	10	12	10	5	3	9	9	9	12	137
Additions and alterations	65	44	48	28	32	22	22	13	26	32	27	25	384
Temporary work			2									4	6
Fixtures	21	15	16	12	22	14	11	14	28	43	4	39	259
New electric signs												2	2
Totals	146	100	117	86	107	94	97	93	141	176	146	161	1,464

PLUMBING

Table showing number of Permits, Inspections, and Violations—1919.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Permits for work in new buildings..	9	7	15	12	18	53	57	44	37	42	40	51	385
Permits for work in old buildings...	32	53	47	62	65	66	52	54	51	52	49	35	618
Regular inspections.....	95	97	185	160	248	267	298	349	296	314	286	219	2,814
Special inspections.....	151	119	125	45	58	29	30	48	15	18	34	31	703
Violations.....	2	3	10		6	8	5	7	4	6	5	4	60

Table showing number of Fixtures installed during 1919.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Water closets.....	42	49	57	62	81	224	180	92	136	233	120	111	1,387
Lavatories.....	35	45	60	37	59	216	159	147	126	194	98	99	1,275
Baths.....	21	24	40	29	46	146	107	80	87	149	83	86	898
Laundry trays.....	17	29	41	29	42	149	102	77	70	134	80	84	854
Sinks.....	27	41	47	50	80	187	123	111	98	185	94	106	1,149
Urinals.....	1	2		1		1	6	19	2	9			41
Totals.....	143	190	245	208	308	923	677	526	519	904	475	486	5,604

GAS FITTING

Table showing number of Permits, Inspections, and Violations—1919.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals
Permits—New Buildings	5	10	16	9	14	46	42	44	24	36	31	32	309
Permits—Old Buildings	10	13	22	11	26	22	19	19	8	23	11	9	193
Permits—Gas Fixtures	1	1		1	1	4		5	3	3	1	4	24
Permits—Water Heaters	18	12	26	31	60	64	370	182	307	65	24	23	1,182
Inspections—Piping and Fixtures	15	31	79	73	72	89	150	171	109	183	202	102	1,276
Inspections—Water Heaters	22	18	39	41	72	77	101	231	106	307	224	121	1,359
Special Investigations	25	50	47	59	43	17	10	2	5	19	16	3	296
Violations			11	3	10	8	21	39	11	42	29	8	182

NOTE:—During the year, one hundred and forty-two certificates have been issued to the Springfield Gas Light Co. for meters and service.

PROSECUTIONS.

Only one person was prosecuted for violating the requirements of the Building Ordinance. He was fined five (5) dollars in Police Court for performing plumbing work illegally.

BOARD OF APPEAL.

The report of the Board of Appeal will be found on the following page.

Respectfully submitted,

FRED W. LUMIS,
Building Commissioner.

REPORT

OF THE

BOARD OF APPEAL

SPRINGFIELD, MASS., December 27, 1919.

Honorable City Council, City of Springfield.

GENTLEMEN:—The Board of Appeal begs leave to submit herewith its annual report to your Honorable Body.

No appeals have come before the Board during the year.

The Board would again call your attention to the present unsatisfactory condition of our Building Ordinance in its lack of control as to the character of buildings to be erected in certain localities.

As stated in its report of 1916, the Board believes that power, if not already existing, should be given the City to prevent the erection of buildings which will depreciate property values either in the immediate vicinity or the City as a whole; that action to bring about this result should be taken as soon as possible and that no legislative action in the matter be taken until a most careful and thorough study of the problem is made.

Respectfully submitted,

D. W. MELLEN,
THOMAS O'BRIEN,
G. C. GARDNER, *Chairman,*
Springfield Board of Appeal.

DEPARTMENT OF LAW.

REPORT

OF THE

DEPARTMENT OF LAW

SPRINGFIELD, MASS., January 19, 1920.

To the City Council:—

In accordance with the ordinance establishing the law department I hereby submit a report of the business done by the department during the municipal year which ended November 30, 1919.

At the beginning of the municipal year the city was a party in one hundred and fourteen cases in the police, probate, superior, and supreme judicial courts, and before the county commissioners, classified as follows:—

Land-damage and water-damage cases arising from the construction of the new water works	18
Land-damage cases arising from the taking of lands for public improvements	41
Actions of contract for the collection of money due the city	15
Actions of tort for personal injuries resulting from alleged defects in highways	28
Petitions for writs of certiorari	2
Matters before county commissioners	6
Miscellaneous	4
Total	114

During the year sixty-nine cases have been begun by or against the city, classified as follows:—

Petitions to reduce betterment assessments	39
Land-damage cases arising from the taking of lands for public improvements	13
Actions of tort for personal injuries resulting from alleged defects in highways	4
Actions of contract for the collection of money due the city	9
Petition for writ of certiorari	1
Miscellaneous	3
Total	69

On November 30, 1919, there were pending one hundred and forty-one cases in which the city was a party, classified as follows:—

Land-damage and water-damage cases arising from the construction of the new water works	17
Petitions to reduce betterment assessments	39
Land-damage cases arising from the taking of lands for public improvements	28
Actions of contract for collection of money due the city	18
Actions of tort for personal injuries resulting from alleged defects in highways	25
Petitions for writs of certiorari	2
Matters before the county commissioners	6
Miscellaneous	6
Total	141

The cases pending include only two of the Dwight street land-damage cases, one of which, that of William H. Nevins v. City of Springfield, was on trial before an auditor at the end of the municipal year.

Twenty cases have been tried during the year and twenty-one cases have been settled; of theses four went to the supreme judicial court and were decided in the city's favor.

The city solicitor and his assistant were present at two meetings of the board on claims at which forty-two claims were disposed of, nine of them by settlement at a cost of $580.32. There are now pending eighteen small matters before the board.

A large number of oral opinions and forty written opinions have been furnished the mayor and other officials, boards or committees on subjects touching the duties of their respective offices.

Contracts, including a standard form of architects' contract, and a new printing contract, bonds, deeds, obligations, and other legal instruments to the number of about one hundred which have been required in the city's business, have been drawn.

Fifteen ordinances and about twenty-five orders have been drawn or examined and approved.

The city solicitor appeared before the committee on cities of the legislature in opposition to a bill to abolish the public landing at the foot of York street and the bill was then withdrawn by the petitioner.

The city solicitor also appeared and testified at the hearing given in Springfield by the special commission on street railway transportation and with a special committee of the city council represented the city at a hearing before the gas and electric light company for leave to increase

its rates. The assistant city solicitor attended hearings held in Boston before the public service commission on the petition of the Springfield Street Railway Company for leave to increase its fares and for relief from its excise tax.

During the year the trustees of the estate of Everett H. Barney sold under license of the probate court the stock owned by Mr. Barney in Barney & Berry, Inc., for $210 a share or $150,990, which sum goes into the trust fund of which the city is now the sole beneficiary. Upon nomination of the city council George J. Clark of Springfield was appointed by the probate court a trustee of said estate to succeed Theodore W. Leete deceased. At the date of writing this report the city solicitor with the assistance of the city auditor is examining the first account of the trustees.

The report of the commissioners appointed under the bridge act, so-called (Chapter 252 of the General Acts of 1915), was filed in the supreme judicial court for the county of Hampden on September 19, 1919. It calls for a straight bridge across the Connecticut River substantially in extension of Vernon street. The cost of building the bridge and of its approaches and highways thereto including other expenses authorized by the act was estimated by the commissioners in their report as of May 1, 1919, to amount to $3,608,000, of which 31% is apportioned to the county of Hampden, 51% to the city of Springfield, 12% to the town of West Springfield, 3% to the City of Holyoke, 2% to the town of Westfield, and 1% to the town of Agawam. A motion for confirmation of the report was filed by the city of Springfield which was opposed by the city of Holyoke and the town of Westfield at a hearing before the supreme judicial court in Boston, but a decree was entered by the court in October, 1919, confirming the report. The city of Holyoke took exceptions to and an appeal from the decree confirming the report and refusing to recommit it, which appeal at the date of this writing is pending before the full bench of the supreme judicial court and will be argued therein on January 20, 1920. A speedy decision may be expected. Meanwhile, the city of Holyoke and the town of Westfield have filed bills in the general court seeking amendments to the bridge act which will relieve the city and the town respectively in whole or in part of their direct apportionment of the cost of the bridge.

The city solicitor has also attended to the legal details in connection with the appraisal and sale of remnants of parcels taken in fee for the Dwight street improvement and sales of such parcels which have been already executed or will be completed in the near future will produce about $44,000.

The city solicitor recommends that the special committee of the city council on legislative matters, appointed last year for the first time, be continued. Such a committee can be of great assistance to the law department in determining what the city's attitude ought to be on numerous bills presented to the general court.

Respectfully,

EDWARD T. BROADHURST,
City Solicitor.

PARK COMMISSIONERS.

REPORT

OF THE

PARK COMMISSIONERS

SPRINGFIELD, MASS., December 22, 1919.

To His Honor, the Mayor, and the City Council of the City of Springfield:—

As required by the Revised Laws of the Commonwealth of Massachusetts of 1902, Chapter 28, Section 13, entitled "Of Public Parks, Playgrounds and Public Domain," the Board of Park Commissioners of the City of Springfield have the honor to submit their thirty-seventh (37th) annual report for the year ending November 30, 1919.

The board was organized for the year with Stanhope E. Blunt, president, and Charles E. Ladd, secretary, the present members of the board being Stanhope E. Blunt, Nathan D. Bill, Theodor R. Geisel, Charles Adams, and Dwight R. Winter.

We are pleased to report a very satisfactory year, notwithstanding the fact that there was a shortage of labor for a time during the summer that seriously interfered with the progress of our work. The inducements offered to our men by contractors, guaranteeing them steady employment and at a wage far in excess of what we were able to pay, resulted in some of our men leaving; but most of them, especially those who had been with the department for several years, refused these offers and remained with us, thus making it possible for us to be able to report a very satisfactory year. In this department, where more than 70 per cent of our appropriation is expended for personal service in salaries and wages, it is very apparent that the faithfulness and loyalty of the employees are the determining factors as to what the results are to be. We are truly grateful for the spirit of loyalty that was shown by the employees of this department during these trying times.

In addition to the ordinary routine work which a department like this is called upon to perform, many improvements have been made during the year. Possibly the most important, and one that will mean more to Forest Park when completed than any development which has been undertaken in the past, is the building of the dam across Pecousic valley,

flooding about 35 acres of swamp land and forming a beautiful lake. This is but the beginning of a very comprehensive and carefully studied plan for the development of this section of the park. This plan contemplates the building of a drive around the lake near the water's edge and extending into some of the ravines where there is sufficient room to build the road, while across some of the narrow ravines it will be necessary to build bridges. At suitable distances drives will be laid out leading to the bluffs overlooking the lake, and connecting with the boulevard drive which is to extend from Forest Glen road to Converse street and Dickinson street extended. This is a wonderful development and will necessitate the expenditure of a considerable sum of money to complete it, but if the work is distributed over a term of years the cost should not embarrass the city. Early in the year plans and specifications for the dam were approved, and estimates for doing the work were received from a number of well-known contractors. Daniel O'Connell's Sons of Holyoke, being the lowest bidders, were awarded the contract, their price being $32,377. The work has progressed very slowly but we feel that is through no fault of the contractor. Laborers' strikes and shortage of labor, together with the unusually wet season, have all contributed to the delay of the work. The masonry work is completed, and all that remains to be done is the earth embankment. This will be done in a short time, the weather permitting.

On account of the policy of rigid economy which was adopted during the period of the war, many improvements, which under ordinary conditions would have been made, were obliged to be postponed. This was especially true regarding the roads at Forest Park, which on account of their long neglect were in very poor condition. We have been able to build more than 15,000 square yards of tarvia roads during the year, confining this work to the main drives. If this amount of road work can be done each year for the next two or three years, the problem of good roads at Forest Park will be solved and their cost of maintenance very materially reduced.

One improvement which deserves mention at this time, and one which has received many favorable comments, is the relaying-out of Stearns Square. A simple and practical plan for development was adopted. This consisted of regrading the park, setting the curbing back and discontinuing the sidewalks on either side of the park from Bridge street to Worthington street. Diagonal and cross walks were laid out where they would best serve the convenience of the public. Three large pin oaks were set out, and a hedge of hardy and ornamental shrubs was planted along the borders. A large flower bed was placed at either end of the square and the remainder of the square was sodded. This plan is radically different from

the one suggested a few years ago, which if carried out at the present time would have cost several thousand dollars. The cost of the present improvement was approximately thirty-five hundred dollars.

Benton Lawn, which was used during the war by the soldiers stationed at the barracks at the U. S. Armory for a drilling and athletic field, was improved the past summer. A concrete sidewalk seven feet wide was laid the entire length of the park, and the part lying between the sidewalk and State street was re-sodded, all of which adds to the appearance and usefulness of the park.

The improvements at Van Horn Park have been confined principally to road work, removing dead trees and setting out new ones to take their places. The roads at this park are built of cinders and were treated with a light coat of tarvia. This makes a very satisfactory road for light travel, and with the application of a light coat of tarvia each year requires no further attention. We recommend that the necessary steps be taken to have the land adjoining Van Horn Park under the control of the Water Department transferred to this department as an addition to the park. This land is much needed for an athletic field, and very naturally should be added to the park.

Under the Division of Forestry the year has been an unusually busy one. A brief summary of the work done shows that 2,871 trees were set out during the year. Each tree was staked and not less than one-half cubic yard of good rich loam was put in the hole in which the tree was planted. Seven hundred and ninety-three elm trees and 961 maple trees were sprayed for scale early in the year, and early in November 475 trees were sprayed for the same trouble, while later in the season 203 trees, mostly elms, were sprayed for the fall web worms. It is very gratifying to note the keen interest manifested by our citizens in our street trees, and a very helpful assistance has been rendered to this department by people reporting falling or dangerous limbs, and cases where trees have been damaged by horses or by the carelessness of truck drivers. We trust that a liberal appropriation for forestry work will be made the coming year. Trees properly pruned and cared for very materially add to the attractiveness of a city.

Public recreation is more and more being recognized as a necessary function of the municipality. The great war has demonstrated that the young man who is physically fit is one of the greatest assets a nation can have, and it is equally true in time of peace. And in order to make him fit he must be given the opportunity for the good wholesome play and recreation which the playground offers. Here the boy under proper supervision and environment comes in contact with others taking part in

the varied activities, all of which contributes to his development, both physical and mental. Under the Division of Recreation the results during the year have been very satisfactory. Sixteen well-equipped playgrounds and two swimming pools, all under proper supervision, were operated during the summer months, and six social centers, affording an opportunity for dancing, were open on certain nights each week during the winter months. All of these activities were well attended and greatly appreciated.

On account of the large ice houses being erected by the Springfield Ice Co. near the bathing beach at Watershops pond, it became necessary to remove both of the bath houses. And until the building is completed we shall be unable to determine if there is to be sufficient room for a bathing beach with the necessary accommodations. As this is the only desirable location for this purpose that is reasonably accessible to the public in this section, we trust we may be able to arrange to have bathing as heretofore.

We renew the recommendation made in our last annual report and urge that a natatorium be built in the section north of the arch to meet the urgent demands that are being made for bathing facilities in that part of the city.

Below is the financial statement showing the receipts and expenditures for the fiscal year ending November 30, 1919:—

GENERAL FUNDS.

RECEIPTS.

Appropriation,	$162,167.16	
Available for re-appropriation,	371.53	
		$162,538.69

EXPENDITURES.

Parks, Administration,	$20,517.74		
Operation,	122,939.32		
		$143,457.06	
Playgrounds, Administration,	$1,289.17		
Operation,	16,037.53		
		17,326.70	
Drinking fountains,		525.86	
New equipment,		375.00	
		$161,684.62	
Unexpended balance,		854.07	
			$162,538.69

VAN HORN SPECIAL APPROPRIATION.

Receipts, Balance from 1918, . .	$1,272.55
Expenditures, Material, . . .	1,272.55

SPECIAL FUNDS.

COURT SQUARE EXTENSION.

Receipts, Balance from 1918, . .	$32,900.52	
Interest, ...	1,431.63	
	$34,332.15	
Expenditures, Transferred to "Porter Lake" Special, . .	22,000.00	
		$12,332.15

SHERMAN D. PORTER FUND.

Receipts, Balance from 1918, . .	$11,847.42	
Interest, ...	594.82	
	$12,442.24	
Expenditures, Transferred to "Porter Lake" Special, . .	12,442.24	

HELEN M. HOSLEY FUND.

Receipts, Balance from 1918, . .	$4,951.24	
Interest, ...	250.30	
	$5,201.54	
Expenditures, Transferred to "Porter Lake" Special, . .	5,201.54	

PORTER LAKE SPECIAL FUND.

Appropriation, Transferred from Court Square Extension Fund, ...		$22,000.00	
Sherman D. Porter Fund, . . .		12,442.24	
Helen M. Hosley Fund, . . .		5,201.54	
		$39,643.78	
Expenditures, Daniel O'Connell's Sons (on contract), . . .	$23,264.00		
Supplies, material, etc., . . .	9,153.95		
		32,417.95	
			$7,225.83

GURDON BILL FUND.

Receipts, Balance from 1918, . .	$4,941.69	
Interest, ...	174.14	
	$5,115.83	
Expenditures, Material, . . .	1,335.85	
		$3,779.98

MCKINLEY MONUMENT FUND.

Receipts, Balance from 1918, . .	$664.43	
Interest, ...	26.58	
		$691.01

WM. H. SMITH FUND.

Receipts, Balance from 1918, . .	$660.66	
Interest, ...	26.43	
		$687.09

CHARLES S. MARSH FUND.

Receipts, Balance from 1918, . .	$335.49	
Interest, ...	13.42	
		$348.91

STANHOPE E. BLUNT,
THEO. R. GEISEL,
CHARLES ADAMS,
DWIGHT R. WINTER,
Board of Park Commissioners.

CHARLES E. LADD, *Secretary.*

LICENSE COMMISSIONERS.

REPORT

OF THE

BOARD OF LICENSE COMMISSIONERS

SPRINGFIELD, MASS., December 1, 1919.

To His Honor, the Mayor, and the City Council of the City of Springfield:—

The Board of License Commissioners begs to submit its annual report for the year ending November 30, 1919.

The following licenses were granted for the term of two months ending July 1st:—

FIRST CLASS LIQUOR LICENSES GRANTED.

Biscotti Cafe Co.,	202 Dwight street.
Breglio, P. A., & Co.,	319-323 Worthington and 349-351 Dwight streets.
Bresnahan, Jas. F., & Co.,	483 Main and 18 Market streets.
Bresnahan & Buckley,	734 and 736 Main street.
Burke, T. J., & Co.,	521 Main and 4 Stockbridge streets.
Burke & Glynn,	514 Worthington street.
Cone, William H., & Co.,	11 Hampden street.
Coughlin, John H.,	116 State street.
Crowley, M. J., Co., Inc.,	485 State and 3 Walnut street.
Delaney, Bernard J., Co.,	603 Main street.
Donovan, J. B., & Co.,	23 Walnut street.
Donovan, M. J., & Co.,	179 Main and 11 Ferry streets.
Duquette, A. H., & Co.,	552 Main street.
Farland, Fred, & Co.,	547½ Main and 6 Cross streets.
Isaacs, W. C., & Co.,	225 Main street.
Joslin, A. A., & Co.,	208 Worthington street.
Kelley, John B., & Co.,	167 Bridge street.
Kernan, Jas. F.,	642 North and 173 Sharon streets.
LaChapelle & Cunningham,	64 Bridge and 71 Water streets.
Lange, Theodore, & Co.,	249 Bridge street.
Lennehan, J. J., & Co.,	215-217 Worthington street.
Lenox Cafe Co.,	167 Main street.
Lubold, H. E., & Co.,	7-9 Lyman street.
Maloney, James, & Co.,	27 Market and 15-15½ Sanford streets.

Maloney, P. F., & Co.,	30 and 32 E. Court and 4 New streets.
Murphy, C. J., & Co.,	329 Worthington street.
Murphy, J. J., & Co.,	8 Walnut street.
Murphy, Wm. J., Co.,	45-47 Market street.
O'Brien, P. J., & Co.,	685 North and 89 Congress streets.
Pessalano & Mazzaferro,	333 Water and r. Water streets.
Reidy, John A., & Co.,	157 Main and 10 Sharon streets.
Roos, Maximilian, & Co.,	69 Water street.
Schenk, Wm. A., & Co.,	3-5-7 E. Court and 50 Market street.
Scully, J. F., & Co.,	660½ Main street.
Shea, J. J., & Co.,	864 North and 86 Essex streets.
Splaine Bros.,	12 Sanford and 34 Market streets.
Sullivan, Daniel E., & Co.,	282 Main street, I. O.
Sullivan, P. F., Co.,	209 Chestnut and 131 Lyman streets.
Sullivan & O'Connor, Inc.,	190 Main street.
The Sullivan Co., Inc.,	609 North and 196 Ferry streets.
Toole, John J., & Co.,	69-71-73 Market street.
Toomey & Cody Co.,	143 Main and 8 Congress streets.
Ward, W. T., & Co.,	201 Main and 4 Liberty streets.
Welch, T. P., & Co.,	193 Main street.
Winkler Bros.,	63 Bridge and 79 Water streets.
Young, Wm. M., & Co.,	145 Main and 7 Congress streets.
Zimmerman, Louis B.,	121 Lyman street.

FOURTH CLASS WHOLESALE LIQUOR LICENSES GRANTED.

Barry, Garratt S.,	253 Bridge street.
Coats, E. M.,	5-11 Market street.
Jefferson & Deeley,	214 Worthington street.
Kushner, Isaac,	169½ Main street.
Toomey & Cody Co., Inc.,	135-141 Main street.
Young, William M., & Co.,	147-147½ Main street.

FOURTH CLASS RETAIL LIQUOR LICENSES GRANTED.

Breglio, P. A., & Co.,	345 Dwight street.
Curran, W. J., & Co.,	17 Sanford and 25 Market streets.
Delaney, Bernard J., Co.,	599 Main street.
Dillon, Jas. F., & Co.,	704 Main street.
Doyle, George W.,	560 Main street.
The Howard Co.,	21-23 Lyman street.
McNamara, D., & Co.,	286 Main and basement and rear room, 282 Main street.
Murphy, Wm., Co.,	17 E. Court street.
Rieutord, Charles E., & Co.,	146 Main, 18 Oak, 151 and 153 Center street, I. O.

Ryan, S. A., & Co., Inc.,	183 Main street.
Shea, M. F., Co.,	850-854 North and 93 Essex streets.
Tone, Phil, & Co.,	591 Main and 125 Union streets.
Walsh, John J., & Co.,	25 Walnut street.

FIFTH CLASS LIQUOR LICENSES GRANTED.

Springfield Breweries,	Highland Branch, 1273 State street.
Springfield Breweries,	Liberty Branch, Liberty and Charles streets.
Springfield Breweries,	Springfield Branch, Fort, Hampden, Water streets.

FIRST CLASS LIQUOR AND FOURTH CLASS INNHOLDERS' LIQUOR LICENSES GRANTED.

Empire Hotel Co.,	Hotel Empire, Main and Morris street.
New Gilmore Hotel Co.,	Hotel Bellevue, Taylor and Main streets.
Grise, Chas., Co.,	National House, 13 Oak, I. O.
Guyer, A. G., & Co.,	Court Square Hotel, Court, Elm, and Court House place.
Hampden Hotel Co.,	Hotel Kimball, 132 Chestnut and 415 Bridge streets.
Hartenstein, L. C.,	Hotel Russell, 224-226 Main street.
Hartt, John E., & Co.,	93-85 State street.
New Haynes Hotel Co.,	8-10-12 Pynchon and 400 Main streets.
Hotel Henking,	15-15½-17 Lyman street.
Heydt, John, & Co.,	Indian Leap Hotel, 179 Main street, I. O.
Katz & Katz,	Chandler Hotel, cor. Main and Bliss streets.
McCarthy, J. J., & Co.,	Hotel Grand, 241-243 Worthington and 18-26 Stearns Park place.
Shean, C. T., & Co.,	Cooley Hotel, cor. Main and Liberty streets.
Sievers, D. H., & Co.,	Highland Hotel, Cor. Hillman and Barnes streets.
Hotel Worthy, Inc.,	169-171-187 Worthington street.

CLUB LICENSES GRANTED.

Elks Club,	311 Main street.
Colony Club,	50 Maple street.
Nayasset Club,	65 State street.
Palm Leaf Social Club,	542 Main street.
Turnverein,	81 State street.

SIXTH CLASS LIQUOR LICENSES GRANTED.

Barker, Irvin R.,	32 Main street.
Bartlett, John L.,	749 Sumner avenue.
Boehm, August H.,	809 Liberty street.
Cabana, George E.,	298 Franklin street.
Clancy, Daniel M.,	152 Main street, I. O.
Dearborn, Harold W.,	1081 State street.
DeFrate, Channing,	188 State street.
Delehanty, Jas. W.,	492 Mill street.
Dickinson, Homer F.,	298 Belmont avenue.
Dooley, Timothy J.,	267 Central street.
Dubois, Wilbrod J.,	164 Main, I. O.
Elsey, Harry P.,	643 Main street.
Erard, Philip V.,	398 N. Main street.
Fortier, Ulysses E.,	429 Main and 1 E. Court streets.
Harrington, James J.,	360 Bay street.
Hayn, Herman E.,	807 Main street.
Jorczak, John S.,	12½ Parker street, I. O.
King, Charles W., & Co.,	749 Sumner avenue.
Knight, Louis W.,	326 North Main street.
Leighton, Percy,	21 White street.
Leonard, Edwin F.,	72 Main street.
Lerche, Albert E.,	325 Main street.
McCarthy, Thomas F.,	539 Belmont and 512 Sumner avenues.
McHugh, John P.,	269 North Main street.
Mongeau, Paul,	218 Main street, I. O.
Nagle, William S.,	59 Sumner avenue.
Noble, W. B.,	167 Chestnut street.
Rearden, Theresa,	369 Chestnut street.
Rudden, P. Eugene,	591 Liberty street.
Ryan, Chas. V.,	194-196 Main street.
Sadler, Wm. L.,	530-532 Main street.
Scalise, Frank. & Co.,	609 Main street.
Shankman, Abraham M.,	1171 North street.
Smith, Fred H.,	372 Belmont avenue.
Sunter, A. E.,	85 Wilbraham road.
Sunter, William,	165 Oakland street.
Sweeney, Edward J.,	428 Plainfield street.
Terney, Louis B.,	438 Chestnut street cor. Carew.
Vezina, R. J.,	441 Armory street.
Wheeler, F. N., & Co.,	802 State street.

SEVENTH CLASS LIQUOR LICENSES GRANTED.

Loomis, Arthur F.,	377 Main street.
Brewer, H. J., Co.,	404 Dwight street.

On July 7, after a conference with the City Solicitor, it was voted to grant licenses of all classes to May 1, 1920; the charges for the same to be according to the following schedule, subject to the laws of the Federal government: Innholders, $1,500; First Class, $1,000; Second Class, $300; Fourth Class, R, $500; Fourth Class, W, $700; Fifth Class, $2,000; Club, $300.

On July 19 and 21 were granted 60 Second Class Licenses, 12 Fourth Class Retail Licenses, 3 Fifth Class Licenses, and 3 Club Licenses.

Meetings were held March 13; April 8, 25; May 5, 26; July 7, 19.

The following licenses were granted to expire May 1, 1920:—

SPECIAL SUNDAY LICENSES. For the sale of fruit, ice cream, candy, etc. Fee, $5.00. Number, 178.

COMMON VICTUALERS' LICENSES. Fee, $5.00. Number, 100.

LODGING HOUSE LICENSES. No fee. Number, 273.

On May 26, the First and Fourth Class Licenses granted to Louis C. Hartenstein, to be exercised on the premises at 224-226 Main street for the months of May and June, were canceled at the request of said licensee; the cancellation to take effect May 28.

On May 28, the Board transferred the First and Fourth Class Licenses, numbered 82 and 83, previously held by Louis C. Hartenstein to Wayne J. Keefe.

On May 26, at request of the licensee, James Delehanty, the Board voted to cancel the Sixth Class License at 492 Mill street.

The expenses of the Board were as follows:—

Salary of Chairman	$250.00
Salary of Clerk	150.00
Extra clerk hire	250.00
Printing	117.31
Automobile used to inspect license applications	22.50
Total	$789.81

Respectfully submitted,

WILLIAM M. STEVENSON,
HUGH J. DONNELLY,
GEORGE G. TAIT,
Board of License Commissioners.

WILLIAM M. STEVENSON, *Secretary.*

CITY CLERK'S REPORT.

CITY CLERK'S REPORT

CITY CLERK'S OFFICE, ADMINISTRATION BUILDING,
January 12, 1920.

To the City Council of the City of Springfield:—

I herewith submit the following report for the year ending November 30, 1919.

The amount of fees received by me for official services, from December 1, 1918, to December 1, 1919, is as follows, said sum having been paid by me to the City Treasurer:—

For marriage certificates	$1,394.00
For recording and indexing marriage records	4.00
For recording and indexing dog licenses	476.40
For recording and indexing hunting and fishing licenses	242.25
For recording physicians' certificates	4.75
For copies of record	334.30
For kerosene and gasoline certificates	4.00

For recording and indexing the following papers:—

Agreements	1.50
Assignments of accounts	.25
Assignments of bills of sale	.50
Assignments of claims	.45
Assignments of leases	.25
Assignments of mortgages	10.50
Voluntary assignments	8.00
Assignments of wages	2.75
Attachments of personal property	.50
Bills of sale	52.00
Conditional sale contract	.25
Contracts	6.80
Discharges of attachments	.25
Discharges of bills of sale	.50
Discharges of leases	2.00
Discharges of married women's certificates	.50
Discharges of mortgages	64.75
Leases	27.50
Married women's certificates	11.50
Mortgages on personal property	369.60
Amendments of mortgages	.25

Notices of foreclosure	$4.25
Orders of restraint	.25
Interest	38.90
Witness fees	4.30
	$3,068.00

There has been paid to the County Treasurer the sum of $5,431.60, being the amount due the County of Hampden for dog licenses, less fees for recording, from December 1, 1918, to December 1, 1919.

The sum of $2,301.50, amount due for two hunters' licenses at $15 each, 2,092 hunters' licenses at $1 each, 4 fishing licenses at $1 each, and 351 fishing licenses at $0.50 each, less fees for recording, has been paid to the State.

ELIJAH A. NEWELL, *City Clerk.*

SPRINGFIELD, MASS., January 12, 1920.

I hereby certify that the foregoing report of the City Clerk is correct, as per his records and receipts on file in his office.

WM. G. McINTYRE,
City Auditor.

The number of marriage intentions filed during the year is	1,441
The number of marriages for the year is	1,586
The number of deaths for the year is	2,113
The number of births for the year is	3,500

VOTERS AND REGISTRATION.

The following table shows the number of men and women who registered as voters in 1918 and 1919:—

1918.					1919.				
Ward	Precinct	Men	Women	Total	Ward	Precinct	Men	Women	Total
1	A	58		58	1	A	86		86
1	B	66		66	1	B	116		116
1	C	53		53	1	C	69	1	70
1	D	36		36	1	D	51		51
2	A	37		37	2	A	65		65
2	B	46		46	2	B	83		83
2	C	57		57	2	C	116		116
2	D	51		51	2	D	73		73
2	E	37		37	2	E	62		62
3	A	31		31	3	A	62		62
3	B	38		38	3	B	81		81
3	C	22		22	3	C	62		62
3	D	41		41	3	D	60		60
4	A	52		52	4	A	78	2	80
4	B	43		43	4	B	132		132
4	C	34		34	4	C	76		76
4	D	51		51	4	D	65	4	69
5	A	45		45	5	A	64		64
5	B	25		25	5	B	35		35
5	C	41		41	5	C	46		46
5	D	52		52	5	D	77	3	80
6	A	22		22	6	A	68	1	69
6	B	33		33	6	B	67	1	68
6	C	28		28	6	C	46		46
6	D	29		29	6	D	48		48
7	A	64		64	7	A	86		86
7	B	43		43	7	B	44		44
7	C	48		48	7	C	62		62
7	D	72	1	73	7	D	73		73
8	A	22		22	8	A	70		70
8	B	55		55	8	B	66		66
8	C	59	1	60	8	C	52		52
8	D	52		52	8	D	89		89
8	E	39		39	8	E	84		84
8	F	24		24	8	F	67		67
		1,508	2	1,510			2,481	12	2,493

The following table shows the number of assessed polls and the number of men and women on the voting list at the city elections December, 1918 and 1919:—

1918.					1919.				
Ward	Precinct	Assessed Polls	Men	Women	Ward	Precinct	Assessed Polls	Men	Women
1	A	1,363	643	2	1	A	1,338	650	1
1	B	1,135	669	15	1	B	1,174	701	16
1	C	1,186	650	28	1	C	1,166	666	23
1	D	881	537	15	1	D	837	557	13
2	A	1,233	537	19	2	A	1,294	559	18
2	B	1,447	588	15	2	B	1,383	542	10
2	C	2,367	588	7	2	C	2,341	625	6
2	D	1,265	629	11	2	D	1,186	637	10
2	E	979	586	23	2	E	972	577	21
3	A	803	391	3	3	A	808	390	3
3	B	1,266	492	43	3	B	1,130	504	40
3	C	996	410	34	3	C	892	414	33
3	D	1,596	545	32	3	D	1,542	540	33
4	A	988	619	68	4	A	977	634	60
4	B	1,259	633	18	4	B	1,234	719	16
4	C	1,066	555	20	4	C	1,041	590	21
4	D	1,021	602	36	4	D	995	630	28
5	A	1,315	668	60	5	A	1,369	643	55
5	B	658	506	108	5	B	662	514	102
5	C	767	523	64	5	C	767	524	61
5	D	1,250	639	87	5	D	1,212	679	85
6	A	1,043	426	7	6	A	1,156	447	8
6	B	880	478	36	6	B	844	510	37
6	C	929	666	66	6	C	923	636	58
6	D	804	551	36	6	D	842	599	32
7	A	1,095	680	11	7	A	1,121	728	11
7	B	780	589	23	7	B	813	578	20
7	C	1,001	688	12	7	C	1,042	737	12
7	D	1,186	831	20	7	D	1,270	888	24
8	A	777	335	4	8	A	820	383	5
8	B	1,018	518	20	8	B	996	534	16
8	C	879	539	33	8	C	910	568	31
8	D	1,181	757	21	8	D	1,310	835	19
8	E	1,006	509	7	8	E	1,138	558	7
8	F	1,603	377	1	8	F	1,623	406	1
		38,913	19,899	1,000			39,118	20,752	946

Respectfully submitted,

ELIJAH A. NEWELL, *City Clerk.*

COMMITTEE
OF
ONE HUNDRED.

REPORT

OF

EXECUTIVE COMMITTEE OF THE

COMMITTEE OF ONE HUNDRED

GENTLEMEN:—During the trying years of the war, the citizens of Springfield responded whole-heartedly to every request made to them.

After the armistice was signed, the problem of the returned soldier arose. The citizens of Springfield had arisen to every emergency and every demand while the war was being carried on, and they entered into the new situation with the same interest. Ways and means of having an organization to properly welcome the service men home and at the same time render them such assistance as was possible, were devised. It was decided that a large committee of the representative men of the city should be appointed, and then different phases of the situation could be handled by smaller sub-committees. Authority for such a committee was granted by an order of the City Council passed January 13, 1919; which order stipulated that the committee should consist of not more than 100 members, including the Mayor, the members of the Board of Aldermen, and the Common Council, and such others as should be appointed by a committee consisting of the Mayor and the Presidents of the Board of Aldermen and the Common Council.

The newly formed committee was called "The Citizens' Committee to Welcome Returning Soldiers, Sailors, and Marines"; and it was called together by Mayor Arthur A. Adams Thursday, January 23, 1919. At that time a chairman, secretary, and executive committee of eight members were appointed, also a committee on social activities and one on employment.

At the first meeting of the executive committee, it was decided that the policy should be to do two things: (1)—arrange a suitable welcome to the men as they returned home, and (2)—to take care of them after they returned. There were a number of organizations doing this very work, each in its own way and each reaching its own class, and your committee

felt that it should make use of the existing organizations in every case possible, rather than set up separate activities and allow unnecessary duplication. Accordingly, a joint meeting of the executive committee and representatives of different welfare organizations was held January 28, 1919. It was felt that this meeting did much to correlate the work in Springfield, and from that time the different organizations were in closer touch with each other. It should be said that your committee found that each organization in its own way was doing splendid work, so that there was little for the committee of 100 to do except in a special way. The committee was ever vigilant to discover individual cases of neglect, but very few were found. It is a matter for congratulation that through the welfare organizations and by their own initiative, the returning men adapted themselves to peace conditions as quickly and easily as they had taken up the arts of war, and there was very little annoyance or dissatisfaction. Signs and posters inviting the soldiers to use the offices of the organization were placed in convenient places, and pamphlets were distributed wherever possible. The matter of entertainment was well cared for by outside organizations, but two occasions were arranged for by this committee. The first was in honor of the returning members of the 104th Regiment. A delegation was sent to Boston to meet the boys as they came into the harbor. Cigars, cigarettes, and candy were taken down and distributed among them. Later it was arranged so that ex-members of the 104th could have their expenses paid to Boston to view the parade of the 26th Division. Arrangements were also made for bringing the Springfield companies of the 104th from Camp Devens, when they were discharged, and giving them a banquet, together with all overseas men, in the Hotel Kimball.

A tablet was unveiled at the Campanile, Memorial Day, with suitable exercises, in memory of those who made the supreme sacrifice during the war.

The question of a celebration to include all service men was discussed at great length, and it was decided to hold one on the Fourth of July. It was decided that the committee could serve best in this particular by turning all its resources over to the Independence Day Association, and volunteer its services, both individually and as a committee.

Many minor questions have been disposed of during the period of organization, but it is felt now that the work is finished and that there is no more need of the committee. Therefore, this report.

FINANCIAL STATEMENT.

Appropriations:		
January	$1,000.00	
April	1,000.00	
April	2,500.00	
May	500.00	
		$5,000.00
Expenditures:		
Traveling expenses	$292.63	
Cigars, tobacco, and candy	764.03	
Signs, Advertising, and Decorating	489.67	
Entertainment and Music	316.00	
Banquet	1,750.00	
Honor Roll	780.58	
Miscellaneous	59.96	
		4,452.87
Unexpended balance		$547.13

Respectfully submitted,

A. R. SIMPSON,

Secretary, Executive Committee.

JURY LIST.

CITY OF SPRINGFIELD.

LIST OF JURORS, 1919.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Abbe, Charles E.,	105 Revere st.,	Coal Dealer, 30 Allen ave.
Acker, Howard F.,	43 Magazine st.,	Printer, 236 Dwight st.
Adams, Clarence W.,	40 Portland st.,	Motorman, 5 North Main st.
Adams, John J.,	141 Massachusetts ave.,	Jeweler, 288 Bridge st.
Adams, Robert W.,	115 Mill st.,	Assistant Manager, 16-32 Sanford st.
Adams, Walter,	44 Dover st.,	Nursery Man, 778 Chestnut st.
Ahearn, Andrew J.,	448 North Main st.,	Grocer, 448 North Main st.
Alden, Charles E.,	192 Phoenix ter.,	Merchant, 719 Liberty st.
Aldrich, Clifton H.,	120 Main st.,	Equipment Man, 283 Main st.
Alexander, Alexander,	501 Belmont ave.,	Buyer, 392 Main st.
Alford, Lester,	195 College st.,	Manager, 282 Main st.
Allen, Frank H.,	321 Belmont ave.,	Agent, 500 Main st.
Allen, George O.,	17 Clifford st.,	Printer, 29 Worthington st.
Allen, Sheldon F.,	76 Bay st.,	Bookkeeper, 53 Elm st.
Allis, George,	782 Belmont ave.,	Linotype Operator, 292 Main st.
Amato, Raffaele,	395 Water st.,	Merchant, 393 Water st.
Amberg, Henry,	44 Silver st.,	Butcher, 41 Hampden st.
Anamier, Daniel H.,	17 Waverly st.,	Sweeper, Torrington Needle Co., Chicopee.
Anderson, Hans Jacob,	21 Brightwood ave.,	Emery Wheel Maker, Fisk ave.
Andrews, Ernest,	55 West Alvord st.,	Garage Owner, 68 Taylor st.
Anetsberger, Alois,	12 Clantoy st.,	Brewer, 177 Liberty st.
Anthony, Albert,	14 Adams st.,	Cigar Maker, 32 Hampden st.
Anthony, Charles,	26 Harriet st.,	Cigar Maker, 32 Hampden st.
Armitage, Walter E.,	397 Birnie ave.,	Machinist, Wason ave.
Armitage, Wilfred S.,	758 Carew st.,	Foreman, Warwick ave.
Armstrong, William J.,	15 Clantoy st.,	Express Business, 15 Clantoy st.
Arndt, Charles,	88 Bliss st.,	Finisher, 540 Main st.
Arno, Louis,	254 Main st., I. O.,	Motorman, 5 North Main st.
Arnold, Arthur M.,	253 North Main st.,	Proprietor, 247 North Main st.
Arnold, Henry S.,	42 Cliftwood st.,	Clerk, 400 Main st.
Arsenalt, Archibald,	92 Center st.,	Machinist, 160 Wilbraham ave.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Arslan, Malke Murgerdech,	106 Colton st.,	Storekeeper, 26 Eastern ave.
Ashley, Charles W.,	18 Coomes ave.,	Erecting Engineer, 630 Capitol ave., Hartford, Ct.
Aspland, Edward C., Jr.,	153 King st.,	Cook, 6 Walnut st.
Atkins, Charles P.,	116 Spring st.,	Printer, 279 Dwight st.
Austin, Michael P.,	20 Huntington st.,	Mason, 264 Main st.
Bailey, Albert B.,	57 Alden st.,	Engineer, Russ Gelatine Co., Westfield
Baily, Hubert C.,	87 Buckingham st.,	Auditor, 372 Main st.
Baker, Alonzo A.,	162 Bowles st.,	Driver, 138-144 Main st.
Baker, Max J.,	4 Salem st.,	Salesman, 123 Carew st.
Baker, Robert E.,	22 Forest st.,	Inspector, 21 Hampden st.
Baldwin, Henry P.,	15 Lenox st.,	Manager, 499 Sumner ave.
Ball, Herbert A.,	51 Sargeant st.,	Bookkeeper, 837 State st.
Ball, Joseph O.,	62 Clarendon st.,	Traveling Salesman, 21 Mills st., Central Falls, R. I.
Barber, Charles M.,	15 Saratoga st.,	Counter Man, 487 Main st.
Barber, Fred A.,	60 Pearl st.,	Rubber Stamp Maker, 274 Main st.
Barber, John H.,	37 Sargeant st.,	Clerk, 303 Main st.
Barker, Winfred W.,	421 Armory st.,	Printer, 381 Main st.
Barrett, Arnold L.,	47 Forest st.,	Clerk, 195 State st.
Barrett, Leon O.,	181 Hampshire st.,	I. O., Foreman, Indian Orchard Co.
Barry, John W.,	10 Prospect ter.,	Insurance Agent, 603 Main st.
Barth, Frederick A.,	705 Bay st.,	Gold Beater, 104 Andrew st.
Bartlett, Frederick W.,	152 College st.,	Salesman, Front st., Chicopee Falls.
Bashaw, Edward J.,	30 Hebron st.,	Manager, 207 Worthington st.
Bass, Bertrand A.,	143 Marion st.,	Printer, 292 Main st.
Bass, Samuel H.,	215 King st.,	Bookkeeper, 155 Main st.
Bassett, Arthur F.,	223 Forest Park ave.,	Manufacturer, Napier st.
Bassett, Austin P.,	56 Riverview st.,	Machine Operator, 57 Willow st.
Bassett, Frank A.,	25 Nevada ave.,	Clerk, 837 State st.
Bassett, Percy E.,	150 White st.,	Salesman, 521 Worthington st.
Bassette, Frederick A.,	82 Green lane,	Printer, 53 Hillman st.
Bates, Charles W.,	42 Acushnet ave.,	Machinist, Bay State Elevator Co., Chicopee.
Bates, Waldo H.,	138 Firglade ave.,	Secretary, 902 South Main st.
Bath, Ralph S.,	214 North Main st.,	Deputy Tax Collector, Municipal Building.
Battige, Paul R.,	241 Tyler st.,	Truckman, 241 Tyler st.
Baush, William H.,	64 Magnolia ter.,	Sales Manager, 612 North Main st.
Baxter, Ernest Wilson,	14 Dorchester st.,	Salesman, C. K. Williams, Easton, Pa.
Beach, Lennox F.,	34 Beech st.,	Bookkeeper, 500 Main st.
Beamon, William A.,	48 Auburn st.,	Advertising Solicitor.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Bearg, Benjamin,	17 Sumner ter.,	Storekeeper, 166 Main st.
Beaudry, Henry A.,	Stebbins pl.,	Wood Worker, 278 Chestnut st.
Bebler, John A., Jr.,	92 Woodside ter.,	Manager, 385 Liberty st.
Bechberger, William A.,	86 School st.,	Buyer, Front st., Chicopee Falls.
Beckwith, Charles L.,	43 Harvard st.,	Purchasing Agent, 235-237 Chestnut st.
Beebe, Henry O.,	42 Ridgewood pl.,	Not employed.
Beford, Fred J.,	154 Alden st.,	Ice Man, 195 Alden st.
Beggs, James G.,	20 Summit st.,	Tire Maker, Front st., Chicopee Falls.
Belcher, Fred L.,	86 Mill st.,	Purchasing Agent, 35 State st.
Belden, Allen M.,	104 Alden st.,	Machinist, Not employed.
Belden, Arthur L.,	48 Bristol st.,	Telegraph Operator, N. Y. N. H. & H. R. R., Highland Division.
Bell, James H.,	21 Sylvan st.,	Machinist, Unemployed.
Bellamy, Thomas A.,	287 Fulton st.,	Boiler Maker, B. & A. Round House, West Springfield.
Bellerive, Cleophas Couture,	159 College st.,	Repairman, 832 State st.
Belli, William Bartholomew,	123 Federal st.,	Salesman, 155 Lyman st.
Bengle, Napoleon,	202 Main st., I. O.,	Clerk, 154 Main st., I. O.
Bennett, Fred W.,	46 Grant st.,	Care Keeper, 43 Federal st.
Bennett, John C.,	15 Dunmoreland st.,	Manager, 36 Fisk ave.
Benoit, Alme,	285 Main st., I. O.,	Weaver, Hodges Fibre Carpet Co., Indian Orchard.
Benoit, Amos,	18 Berkshire st., I. O.,	Meat Cutter, 192 Main st., I. O.
Benoit, Esdras,	46 Berkshire st., I. O.,	Milk Dealer, 46 Berkshire st., I. O.
Benson, Raymond E.,	164 Alden st.,	Bookkeeper, 195 Alden st.
Benton, Wrayburn M.,	126 Stockman st.,	Clerk, 500 Main st.
Bergen, Fred Joseph,	S. S. Briggs st.,	Foreman, Oak st., I. O.
Bernhardt, David,	854 Carew st.,	Merchant, 1236 State st.
Bernier, Philip J.,	92 Euclid ave.,	Automobile Dealer, 142 Hancock st.
Betterley, Ernest R.,	25 Spencer st.,	Printer, 220 Franklin st.
Betters, Mitchell J. L.,	40 High st.,	Waiter, 50 Maple st.
Beusee, William H.,	23 Knox st.,	Clerk, 616½ Main st.
Bewsee, Emery,	27 Bliss st.,	Painter, Unemployed.
Bianchi, Antonio,	54 Saratoga st.,	Contractor, 54 Saratoga st.
Bigelow, Lawrence D.,	72 College st.,	Draftsman, 73 State st.
Bills, Philip H.,	82 Benton st.,	Statistician, foot Church st., West Springfield.
Birchard, Arthur R.,	44 Lafayette st.,	Publisher, 264 Main st.
Birnie, Walter,	35 Ridgewood ter.,	Paper Manufacturer, 214 Birnie ave.
Bishop, Charles M.,	51 Clarendon st.,	Bank Clerk, 370-372 Main st.
Blackmer, Elmer J.,	122 Benton st.,	Engineer, Unemployed.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Blackmer, Francis B.,	85 Lebanon st.,	Milk Peddler, 134 Cass st.
Blaine, William,	306 Main st., I. O.,	Electric Light Trimmer, State st.
Blanchard, Wilfred R.,	372 North Main st.,	Jitney Operator, 372 North Main st.
Bletzer, Louis A.,	1160 North st.,	Brewer, Springfield Brewery, Water st.
Bliss, Edgar S.,	153 Dartmouth ter.,	Paper Manufacturer, Worthy Paper Co., West Springfield.
Bliss, George G.,	153 Bowles st.,	Janitor, Library, Memorial Square.
Blodgett, Charles A.,	128 Maplewood ter.,	Merchant, 162½ Chestnut st.
Blood, Fred A.,	34 Grant st.,	Manager, 34 Burr st.
Blood, Herbert L.,	56 Bancroft st.,	Merchant, 34 Main st.
Blood, Lucius M.,	20 Osgood st.,	Merchant, 34 Main st.
Blythe, William A.,	38 Ringgold st.,	Conductor, 5 North Main st.
Bodurtha, Addison P.,	82 Prospect st.,	Foreman, 123 Carew st.
Bolden, Joseph T.,	89 Adams st.,	Janitor, 272 State st.
Bond, Charles D.,	26 Mulberry st.,	Magazine Specialist, 26 Mulberry st.
Bond, Edward H.,	112 Massachusetts ave.,	Clerk, 311 Main st.
Booth, B. Franklin,	303 Main st.,	Traveling Salesman, 317 Main st.
Booth, James W.,	59 High st.,	Accountant, 499 Main st.
Bouchard, Ephraim,	28 Clermont st.,	Tire Maker, Front st., Chicopee Falls
Bouffard, Alphonse A.,	9 Massasoit pl.,	Draftsman, 417 Liberty st.
Bourgault, Fred,	253 Main st., I. O.,	Core Maker, Unemployed.
Bouvier, Adelard J.,	14 Beacon st.,	Machinist, 837 State st.
Bowles Charles A.,	81 Mulberry st.,	Paper Maker, 317 Main st.
Bowman, Henry N.,	74 Jefferson ave.,	Assistant Manager, 292 Main st.
Boyce, George L.,	70 Vermont st.,	Salesman, 535 Main st.
Boyden, Fred W.,	28 Marble st.,	Agent, 28 Marble st.
Bozian, Charles Sarkes,	4 Eagle st.,	Merchant, 457 North Main st.
Bozenhard, Frank A.,	35 Demond ave.,	Foreman, Wason Manufacturing Co., Wason ave.
Bracken, William,	677 Carew st.,	Laborer, 23 Hampden st.
Brackney, John,	43 Chester st.,	Clerk, 445 Central st.
Bradford, George C.,	23 Winthrop st.,	Assistant Auditor, 500 Main st.
Bradway, Irving C.,	45 Beech st.,	Salesman, 152 Lyman st.
Bragg, Charles S.,	27 Hebron st.,	Motorman, 5 North Main st.
Brainard, Raymond C.,	18 Lyndale st.,	Clerk, 60 Hampden st.
Brandhurst, Harry,	21 Patton st.,	Cigar Maker, 260 Main st.
Bray, William J.,	38 Chase ave.,	Printer, 53 Hillman st.
Brayton, Henry A.,	101 Acushnet ave.,	Painter, 140 State st.
Brennan, John J.,	48 Grover st.,	Mason Contractor, 48 Grover st.
Brennan, Matthew J.,	268 Central st.,	Printer, 48 Harrison ave.
Brennan, William F.,	50 Montmorenci st.,	Foreman, Brightwood.
Brenner, William F.,	133 Carew st.,	Printer, 53 Hillman st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Bresnahan, Patrick J.,	1136 North st.,	Stage Hand, 12 Taylor st.
Bre Veglieri, Armand,	104 Eastern ave.,	Laborer, 35 State st.
Brice, Robert J.,	50 Mattoon st.,	Piano Tuner, 482 Main st.
Brierly, Ralph E.,	59 Buckingham st.,	Estimator, 495 Main st.
Briggs, Fred H.,	10 Sanford st.,	Lodging House Keeper, 10 Sanford st.
Brochu, Telesphor O.,	312 Hickory st.,	Repairman, 474 Main st.
Brooks, John W.,	771 Union st.,	General Machinist, Municipal Building.
Brooks, Joshua L.,	27 Mulberry st.,	Lithographer, 140 Wilbraham ave.
Brooks, Nathan T.,	9 Adams st.,	Porter, 429 Main st.
Broughton, Robert N.,	151 Sherman st.,	Pharmacist, 155 Sherman st.
Broulette, Joseph O.,	61 Dresden st.,	Magneto Repair Man, rear 61 Dresden st.
Brown, Arthur A.,	163 Bowles st.,	Traveling Salesman, 317 Liberty st.
Brown, Barney B.,	40 Ashmun st.,	Foreman, Pullman Co., Boston.
Brown, Charles L.,	100 Ashley st.,	Manager, 4 Birnie ave.
Brown, Clarence E.,	407 Boston rd.,	Real Estate Broker, 389 Main st.
Brown, Nedd W.,	33 Stratford ter.,	Piano Dealer, 170 Bridge st.
Brown, Phelps,	44 Avon pl.,	Manufacturer, 132 Liberty st.
Brown, Wallace E.,	39 Grant st.,	Foreman, 67 Taylor st.
Brown, William J.,	118 Cedar st.,	Cabinet Maker, 48 Hampden st.
Bruce, Alexander Y.,	18 Osgood st.,	Inspector, Front st., Chicopee Falls.
Bruce, Merton W.,	1240 North st.,	Carpenter, 123 Carew st.
Brunelle, Joseph A.,	297 Main st., I. O.,	Clerk, 346 Main st.
Brunke, Theodore H.,	26 Summit st.,	Wire Weaver, Heywood st.
Brunton, James,	351 Chestnut st.,	Teamster, 331 Liberty st.
Brunton, Thomas F.,	121 Cherrelyn ave.,	Janitor, 29 Worthington st.
Bryant, Harold E.,	Atwater ter.,	Superintendent, Atwater rd.
Bryant, William M.,	63 Park st.,	Care Taker, 63 Park st.
Bryson, Andrew S.,	86 Whittier st.,	Motorman, 5 North Main st.
Buchwalter, Joseph,	39 Loring st.,	Salesman, 39 Loring st.
Buckley, Michael D.,	34 Cortland st.,	Baker, 134 Main st.
Buddington, Lawrence R.,	179 Dunmoreland st.,	Clerk, Front st., Chicopee Falls.
Bugbee, Charles M.,	124 Catharine st.,	Merchant, 250-252 Front st., Hartford, Ct.
Bulkley, George G.,	102 Magnolia ter.,	Vice President, 195 State st.
Bullard, Glenn M.,	38 Bristol st.,	Purchasing Agent, Fiberloid Mfg. Co., Worcester st., I. O.
Bump, Charles H., Jr.,	44 Fairfield st.,	Manager, 116 Broadway.
Bunnell, Russell R.,	450 Belmont ave.,	Coal Dealer, 289 Main st.
Buntin, Robert James,	40 Applewood pl.,	Pattern Maker, 53 Wilbraham ave.
Burch, Arthur S.,	515 Berkshire ave.,	Plumber, Unemployed.
Burdick, Pliny F.,	35 Harvard st.,	Photographer, 500 Main st.
Burger, Charles E.,	93 Park st.,	Sign Painter, 150 Bridge st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Burgin, J. Alfred,	14 Ashmun st.,	Awning Maker, 96 Adams st.
Burke, John J.,	51 Vinton st.,	Bookkeeper, 495 Main st.
Burke, Karl F.,	64 Grosvenor st.,	Window Dresser, 342 Main st.
Burke, Michael Henry,	91 Roseland st.,	Freight Conductor, 5 North Main st.
Burkholder, John D.,	34 Marlboro ave.,	Traffic Manager, Pine st., I. O.
Burlingham, Harry A.,	114 Washburn st.,	Foreman, 87 Water st.
Burnett, James J.,	12 Eagle st.,	Solicitor, 292 Main st.
Burnham, Erastus D.,	104 Buckingham st.,	Tobacco Business, South Windsor, Ct.
Burnham, Herbert L.,	37 College st.,	Bookkeeper, Front st., Chicopee Falls.
Burns, William,	10 Chestnut st.,	Shoe Repairer, 36 Harrison ave.
Burt, Alpha R.,	15 Cliftwood st.,	Traveling Salesman, Grand Rapids, Mich.
Rusha, Albert J.,	340 Walnut st.,	Carpenter, 47 Hillman st.
Busi, Federico Cesare,	21 Norwood st.,	Grocer, 788 Main st.
Bussolari, Giovanni,	514 Chicopee rd.,	Florist, Forest Park Greenhouse.
Butler, Fred A.,	76 Woodside Ter.,	Master Mechanic, B. & A. R. R. Co.
Butler, Tobias J.,	57 Osgood st.,	Chauffeur, 136 Mill st.
Butterworth, Charles G.,	11 Armory st.,	Clerk, 464 Main st.
Byrnes, John F.,	63 Charles st.,	Printer, 292 Main st.
Byrnes, Mathew J.,	1329 North st.,	Clerk, B. &. A. Railroad.
Byron, Alexander,	18 Winthrop st.,	Undertaker, 18 Winthrop st.
Cabble, Walter E.,	40 Armory st.,	Wire Weaver, 417 Liberty st.
Cadwell, Paul S. W.,	82 Mapledell st.,	Show Card Writer, 82 Mapledell st.
Caesar, Charles H.,	113 Monroe st.,	Laborer, 53 Wilbraham ave.
Calderwood, Herbert H.,	49 Ventura st.,	Salesman, 245 Chestnut st.
Callaghan, Francis E. J.,	327 State st.,	Assistant Paymaster, Municipal Bldg.
Callahan, Patrick John,	24 Crane st.,	Ash Collector, 96 Summer st.
Callahan, William,	86 Colton st.,	General Jobber, 131 Maynard st.
Calnen, Thomas,	120 Calhoun st.,	Iron Contractor, 120 Calhoun st.
Cannon, John P.,	49 Linden st.,	Claim Adjuster, 29 Worthington st.
Canty, John R.,	56 Roseland st.,	Shipping Clerk, Fisk ave.
Capron, Reuben E.,	12 Sherman st.,	Publicity Director, 12 Sherman st.
Carey, Patrick,	226 Armory st.,	Teamster, 417 Liberty st.
Carlton, Edward E.,	76 Harvard st.,	Treasurer, 292 Worthington st.
Carpenter, John H.,	111 Bowdoin st.,	Merchant, 350 Main st.
Carr, Mathew F.,	42 Seventh st.,	Clerk, 375 Main st.
Carrigan, Edward H.,	112 Greenwood st.,	Printer, 381 Main st.
Carroll, Edward,	16 Orchard ave., I. O.,	Machinist, Pine st., I. O.
Carter, Frank W.,	98 Dawes st.,	Clerk, 852 State st.
Casey, David I.,	93 Adams st.,	Waiter, 98 State st.
Cass, Martin V.,	169 Main st.,	Contractor, 244 Main st.
Cassidy, John J.,	64 Sheldon st.,	Cigar Manufacturer, 64 Sheldon st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Cassidy, Patrick H.,	64 Sheldon st.,	Merchant, 43 Birnie ave.
Cassidy, William F.,	75 Belmont ave.,	Mechanic, 383 Dwight st.
Cassidy, William H.,	36 Thomas st.,	Laborer, B.& A.R.R.Shops, West Springfield.
Castle, Clifford DeW.,	210 Maple st.,	Wholesale Grocer, 49 Lyman st.
Caswell, Henry H.,	20 Stratford ter.,	Manager, 75 Temple st.
Cataw, Arthur Z.,	26 Leonard st.,	Shipper, 435 Dwight st.
Cavanaugh, James,	47 Birnie ave.,	Freight Handler, Fulton st.
Cavanaugh, Maurice W.,	111 Congress st.,	Steamfitter, 52 Harrison ave.
Cavario, Emilio,	27 Wilbraham rd.,	Proprietor, 29 Wilbraham rd.
Cavin, Maurice J.,	54 Chester st.,	Plumber, Unemployed.
Cawley, Thomas F.,	384 Armory st.,	Steamfitter, 73 State st.
Cedarburg, Arthur C.,	122 Chestnut st.,	Salesman, 272 Main st.
Chadwick, Charles F.,	59 High st.,	Organ Expert, 59 High st.
Chaisson, John A.,	151 Lebanon st.,	Printer, 189 State st.
Chalker, Frank J.,	14 Howard st.,	Salesman, 16 Sanford st.
Chamberlin, Morton O.,	209 Walnut st.,	Salesman, 45 Hampden st.
Chapin, Alfred H.,	Crescent Hill,	Manager, 38 Walter st.
Chapin, Frank M.,	66 Prospect st.,	Foreman, 367 Worthington st.
Chapman, Carl H.,	20 Nelson st.,	Printer, 33 Lyman st.
Chapman, Lynde B.,	7 Marble st.,	Shipping Clerk, 55 Lyman st.
Chapman, Norman S.,	143 Catharine st.,	Assistant Foreman, 837 State st.
Charron, Hubert,	20 Beaudry ave.,	Foreman, Hodges Fibre Carpet Co., I. O.
Cheney, Royden W.,	62 Cherryvale ave.,	Assistant Manager, 293 Bridge st.
Childs, Harry A.,	93 Park st.,	Auditor, 93 Park st.
Christy, Edward T.,	657 Main st.,	Shipper, 37 Harrison ave.
Church, Howard E.,	165 St. James ave.,	Purchasing Agent, 499 Main st.
Churchill, Henry E.,	73 Somerset st.,	Traveling Salesman, 73 Somerset st.
Cignoni, Peter P.,	43 Queen st.,	Grocery Clerk, 112 Hancock st.
Clampit, Thomas James,	26 Vermont st.,	Painter, 26 Vermont st.
Clapp, George O.,	364 Belmont ave.,	Steamfitter, 56 Florence st.
Clapp, John T.,	8 Harvard st.,	Salesman, 130 Lyman st.
Clapp, Z. Charles,	56 Florence st.,	Heating Contractor, 56 Florence st.
Clark, Charles A.,	21 Patton st.,	Manager, 118 Main st.
Clark, Charles H.,	854 Main st.,	Grocer, 829 Main st.
Clark, Henry M.,	3 Lafayette st.,	Insurance, Real Estate Dealer, 100 Broadway.
Clark, Horace N.,	66 Fairfield st.,	Manager, 225 Liberty st.
Clark, Michael F.,	27 Waverly st.,	Plumber, 8 East Hooker st.
Clarkson, James H.,	cor Dale & Union sts.,	Musician, 720 North st.
Cleary, John,	31 Austin st.,	Laborer, City Yard.
Cleary, Raymond A.,	19 Colonial ave.,	Bartender, 179 Main st.
Cleary, William F.,	477 Bay st.,	Chauffeur, 16 Amherst st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Clough, Robert C.,	281 Chicopee rd.,	Clerk, 715 Liberty st.
Clune, Arthur J.,	25 North Main st.,	Bartender, 850 North st.
Clutterbuck, Will E. E.,	64 Church st.,	Clerk, 224 Main st.
Cobb, Percy H.,	19 Albemarle st.,	Accountant, 295 Worthington st.
Coburn, Edward C.,	117 Essex st., I. O.,	Manager, 143½ Main st., I. O.
Coburn, George H., Jr.,	24 Ozark st.,	Carpenter, 150 Birnie ave.
Cochran, James W.,	129 Monroe st.,	Painter & Paper Hanger, 141 Dwight st.
Coe, David C.,	237 Long Hill st.,	Merchant Tailor, 26 Vernon st.
Coe, James A.,	74 Gresham ave.,	Carpenter, Unemployed.
Cofski, Adolph,	73 Bradford st.,	Glass Cutter, 196 Worthington st.
Colbert, Patrick J.,	32 Burr st.,	Plumber, 20 Dwight st.
Colburn, Benjamin W.,	22 Hall st.,	Pistol Maker, Stockbridge st.
Colburn, Dorance A.,	84 Albemarle st.,	Repairman, 71 Colton st.
Coleman, George B.,	23 Dartmouth st.,	Clerk, 53 Wilbraham rd.
Colligan, Michael J.,	216 Tyler st.,	Electrician, 17 Worthington st.
Collins, Clarence F.,	36 Oak st.,	Manufacturer, 36 Oak st.
Collins, Edward W.,	60 Vinton st.,	Wire Weaver, 417 Liberty st.
Collins, Frank H.,	37 Dorchester st.,	Livery Stable Keeper, 25 Sanford st.
Collins, John J.,	29 Underwood st.,	Proprietor, 1 Court House pl.
Collins, Patrick J.,	36 Albemarle st.,	Carpenter & Builder, 36 Albemarle st.
Collins, Stephen J.,	34 Church st.,	Merchant, 10 Main st.
Collins, Timothy Joseph,	90 Revere st.,	Bartender, 8 Walnut st.
Collins, William M.,	34 Church st.,	Traveling Salesman, Dunnam Bros. Brattleboro, Vt.
Colt, Robert M.,	72 Pearl st.,	Painter, 94 Dawes st.
Coltman, Richard S.,	110 Clarendon st.,	Retired.
Colvin, Charles H.,	74 Clantoy st.,	Barber, 716½ Main st.
Comans, Andrew P.,	36 Fort Pleasant ave.,	Printer, 292 Main st.
Congdon, Henry A.,	195 Chestnut st.,	Order Clerk, 180 Lyman st.
Congdon, Oscar R.,	87 Bancroft st.,	Clerk, 390 Bridge st.
Conlin, Bernard J.,	42 Bancroft st.,	Plumber, 19 Worthington st.
Connell, Denis F.,	37 Shillingford st.,	Painter, 495 Main st.
Connelly, William T.,	318 Franklin st.,	Cigar Maker, 479 Main st.
Connor, Daniel,	52 Bond st.,	Forester, Forestry Department.
Connor, John M.,	285 Central st,	Clerk, 377-379 Main st.
Connors, James John,	61 Cherry st.,	Coachman, Crescent Hill.
Connors, John J.,	138 Butler st.,	Chauffeur, 13 Western Drive, Longmeadow.
Conrad, Henry T.,	46½ Mason st.,	Teamster, 38 Hampden st.
Cook, George S.,	33 Chapin ter.,	Mason Supplies, 41 Cypress st.
Cook, Robert L.,	147 Magnolia ter.,	Monumental Work, Bridgeport, Ct.
Cooke, Harold S.,	92 School st.,	Secretary, 41 Market st.
Coolbroth, Edwin L.,	290 Bridge st.,	Weigh Master, 222 Summer st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Cooley, George E.,	56 Waverly st.,	Repairman, 16 Sanford st.
Cooney, Martin E.,	140 Franklin st.,	Pressman, 17 Worthington st.
Cooney, Arthur J.,	229 Central st.,	Machinist, Unemployed.
Cooney, William H.,	11 Warren ave.,	Inspector, Page blvd.
Corbett, William J.,	54 Thomas st.,	Printer, 29 Worthington st.
Corcoran, Patrick J.,	224 Main st.,	Clerk, 657 Main st.
Coren, Isaac,	249 Carew st.,	Expressman, 249 Carew st.
Corliss, Thomas M.,	109 Everett st.,	Clerk, 392 Main st.
Cornell, William Oliver,	27 Ashley st.,	Chauffeur, 96 Summer st.
Cornwell, Harry I.,	28 Cypress st.,	Janitor, Unemployed.
Cory, Moreton M.,	116 Belmont ave.,	Manager, 305 Bridge st.
Cosgrove, James S.,	1329 North st.,	Steamfitter, 24-28 Willow st.
Costigan, Daniel,	56 Greenwood st.,	Porter, Union Station.
Coupal, Frederic,	r. 233 Worcester st., I. O.,	Teamster, Carlisle Coal Co., Indian Orchard.
Cowan, George E.,	38 Dunmoreland st.,	Wire Weaver, Warwick ave.
Cowles, George H.,	28 Dunmoreland st.,	Proprietor, 144 Bridge st.
Crane, Frank A.,	74 Lyndale st.,	Retired.
Cratsley, Birton A.,	11 Dorchester st.,	Auditor, 318 Main st.
Crawford, William Donaldson,	94 Denver st.,	Laborer, Berkshire ave.
Creswell, Albert,	N. S. Wilbraham rd.,	Farmer, S. S. Wilbraham rd.
Crimmins, Clarence F.,	67 Hampden st.,	Chauffeur, 67 Hampden st.
Cronin, Daniel,	88 Prospect st.,	Motorman, 5 North Main st.
Cronin, George R.,	32 Mattoon st.,	Printer, 279 Dwight st.
Cronin, Patrick F.,	16 Rutledge ave.,	Barber, 7 Court Square bldg., Elm st.
Crosier, Robert A.,	92 Linden st.,	Painter, 132 Cass st.
Cross, Frederick C.,	34 Pineywoods ave.,	Manufacturer, 906 South Main st.
Crowell, Joseph N.,	15 Lafayette st.,	Salesman, 45 Hampden st.
Crowninshield, George C.,	139 Colton st.,	Bookkeeper, 160 Wilbraham ave.
Cruickshank, Alan,	36 Bancroft st.,	Chauffeur, 345 Main st.
Cullen, Thomas F.,	129 Ingersoll Grove,	Wire Weaver, 417 Liberty st.
Cullinan, Edward,	118 Armory st.,	Salesman, 148 Lyman st.
Culver, Charles R.,	30 Churchill st.,	Automobile Dealer, 575 Main st.
Culver, John W.,	82 Vermont st.,	Reporter, 381 Main st.
Cummings, Michael E.,	53 West Alvord st.,	Salesman, 53 West Alvord st.
Cummings, Odique C.,	34 Grant st.,	Painter & Paper Hanger, 34 Grant st.
Cunningham, Charles J.,	94 Beaumont st.,	Retired.
Cunningham, Merton A.,	16 Dunmoreland st.,	Contractor, 16 Dunmoreland st.
Curley, William H.,	652 Worthington st.,	Musician, 11 Elm st.
Curtis, Albert,	378 Sumner ave.,	Chauffeur, 378 Sumner ave.
Curtis, Henry H.,	4 Lafayette st.,	Proprietor, 92 Hayden st.
Curtis, Howard F.,	38 Acushnet ave.,	Bleacher, 10 Mill st.
Curtis, Raymond G.,	33 Thorndyke st.,	Clerk, 500 Main st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Curto, Alfonso,	26 William st.,	Laborer, 131 Cedar st.
Cushing, Charles,	15 Colonial ave.,	Proprietor, 339 Main st.
Daigle, Arthur H.,	274 Main st., I. O.,	Weaver, Hodges Fibre Carpet Co., I. O.
Daigneault, John B.,	20 Florida st.,	Chauffeur, 640 Main st.
Dailey, Patrick J.,	333 King st.,	Chauffeur, Unemployed.
Dale, Russell P.,	1 Lincoln st.,	Laundry Man, 472 Union st.
Daley, William F.,	122 Chestnut st.,	Salesman, Colgate Co., N. Y.
Daly, Daniel J.,	17 Chase ave.,	Superintendent, 19 Worthington st.
D'Ambrosio, Antonio,	76 Acushnet ave.,	Candy Maker, 37 Harrison ave.
Damon, Walter H.,	32 Bancroft st.,	Superintendent, 73 State st.
D'Angelo, Paul,	76 Morris st.,	Machinist, Unemployed.
Daniels, Charles S.,	35 Central st.,	Counter Man, 596 Main st.
Daniels, Lew J.,	270 Liberty st.,	Superintendent, 270 Liberty st.
Davies, Arthur,	10 Ripley pl.,	Coat & Towel Supply Dealer, 472 Union st.
Davies, George C.,	19 Cliftwood st.,	Machinist, William Bent Co., Chicopee.
Davis, Charles F.,	67 Armory st.,	Manager, 69 Armory st.
Davis, Charles J.,	56 West Alvord st.,	Salesman, 381 Main st.
Davis, Edward T.,	31 Maple st.,	Plumbing Supplies, 398 Bridge st.
Davis, Everett L.,	30 Catharine st.,	Grocery Clerk, 193 Pine st.
Davis, Theodore H.,	33 Donald st.,	Musician, 192 Worthington st.
Davis, Thomas H.,	647½ Main st.,	Carpenter, Unemployed.
Davis, Winthrop I.,	65 Firglade ave.,	Insurance Agent, 381 Main st.
Dawson, Edward F.,	91 Oak Grove ave.,	Repair Man, 832 State st.
Day, Edward H.,	140 Chestnut st.,	Superintendent, 21 Cypress st.
Day, Charles G.,	73 Massasoit st.,	Bookkeeper, 225 Liberty st.
Day, Frank S.,	86 Rittenhouse ter.,	Machinist, Stockbridge st.
Decker, Carl H.,	33 Belgrade pl.,	Carpenter, Unemployed.
Decker, Edward S., Jr.,	48 Harvard st.,	Lumber Dealer, 38 Cass st.
Decker, Wallace B.,	83 Center st.,	Electrician, 73 State st.
Delaney, James E.,	100 Massachusetts ave.,	Chiropodist, 356 Main st.
Delaney, Michael J.,	6 Gerrish ct.,	Printer, 53 Hillman st.
DeLuca, Angelo,	57 Pendleton ave.,	Barber, 14 Walnut st.
Demars, Fred,	4 Howard pl.,	Laborer, 21 Cypress st.
Derose, George A.,	15 Leete st.,	Painting Contractor, 15 Leete st.
Deutsch, Karl,	230 Eastern ave.,	Milk Man, 120 Oakland st.
Dewey, Frank E.,	54 Dawes st.,	Manufacturer, 304 Plainfield st.
DeWolf, George W.,	415 Central st.,	Cost Accountant, 532 Main st., Holyoke.
Dickinson, Oliver H.,	110 Atwater ter.,	Treasurer, Fisk Paper Co., Hinsdale, N. H.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Dignan, Thomas,	50 Brookline ave.,	Steamfitter, 20-24 Wight pl.
Dill, Charles H.,	534 Armory st.,	Janitor, 73 State st.
Dillenback, H. Irving,	705 Sumner ave.,	Clerk, 29 Worthington st.
Dillon, Patrick J.,	29 Massasoit st.,	Boiler Maker, B. & A. Shops, West Springfield.
Dineen, Martin J.,	19 Donald st.,	Mason, 264 Main st.
Dion, Charles J.,	56 Vermont st.,	Telephone Worker, 116 Liberty st.
Dobbs, Scott E.,	104 Chestnut st.,	Stock Keeper, 837 State st.
Dobson, Thomas A.,	178 Maple st.,	Steward, 137½ State st.
Dodge, Augustus W.,	53 Buckingham st.,	Purchasing Agent, Brunswick, Ga.
Dodge, Harry W.,	47 White st.,	Laborer, Exposition Grounds, West Springfield.
Doersam, Aloys,	56 Clantoy st.,	Cigar Maker, 351 Main st.
Doersam, Franz Otto,	40 Murray Hill ave.,	Cigar Maker, 32 Hampden st.
Dolan, Frank M.,	158 Walnut st.,	Mason, Unemployed.
Dolan, James P.,	33 High st.,	Printer, 279 Dwight st.
Donald, George D.,	41 Main st.,	Manager, 211 Worthington st.
Donnelly, Thomas E.,	74 Berkshire st.,	Weaver, Indian Orchard Co., I. O.
Donoghue, James A.,	42 Morgan st.,	Care Taker, 217 Franklin st.
Donohue, Daniel P.,	4 Eagle st.,	Stock Clerk, 240 Main st.
Donohue, John W.,	32 Plainfield st.,	Architect, 476 Main st.
Donovan, Charles J.,	54 Armory st.,	Clerk, 81 Dwight st.
Donovan, David F.,	10 Arbor st.,	Plumber's Helper, 77 Dwight st.
Donovan, George F.,	77 Acushnet ave.,	Superintendent, 499 Main st.
Donovan, James A.,	88 Prospect st.,	Plumber, 153 Dwight st.
Donovan, Michael J.,	383 Armory st.,	Teamster, 54 Hampden st.
Donovan, Patrick J.,	17 Ionia st.,	Buyer, 337 Main st.
Donovan, Richard,	114 Butler st.,	Store Keeper, 114 Butler st.
Donovan, Timothy,	81 Tenth st.,	Foreman, Worcester & Pine sts., I. O.
Dooley, Timothy J.,	56 Foster st.,	Druggist, 267 Central st.
Doolittle, Robert H.,	90 Bowles st.,	Manager, 818 State st.
Doppman, Henry E.,	84 Chestnut st., I. O.,	Clerk, Pine st., I. O.
Dorne, George A.,	657 Main st.,	Painter, 140 State st.
Dorsey, George B.,	97 Parkside ave.,	Painter, B. & A. R. R. Co., West Springfield.
Dougherty, John,	455 Armory st.,	Printer, 220 Franklin st.
Douglass, James C.,	73 Acushnet ave.,	Toolmaker, Stockbridge st.
Dowd, John P.,	174 Bowdoin st.,	Checker, N. E. Westinghouse Co., Page blvd.
Dowd, Michael J.,	388 Chestnut st.,	Printer, 28 Fort st.
Dowd, William J.,	32 Chase ave.,	Barber, 209 Main st.
Dowd, William P.,	103 Eastern ave.,	Glazier, 850 State st.
Downey, Daniel J.,	67 Bond st.,	Painter, foot of Cypress st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Doyle, John Raymond,	117 Patton st.,	Traveling Salesman, 142 Lyman st.
Dragon, Gelasse Joseph,	29 Windsor st.,	Painter & Paper Hanger, Unemployed.
Drake, Arthur F.,	13 Clayton st.,	Steamfitter, Unemployed.
Drinkwine, Leon,	38 Bradford st.,	Barber, 217 North Main st.
Driscoll, Dennis J.,	29 Demond ave.,	Upholsterer, 392 Main st.
Driscoll, Francis J.,	28 Everett st.,	Real Estate Agent, 476 Main st.
Driscoll, John A.,	55 Leete st.,	Upholsterer, 57 Suffolk st., Holyoke.
Driscoll, Patrick J.,	205 College st.,	Carpenter, 205 College st.
Dubois, Herbert E.,	20 Church st.,	Electrician, 5 North Main st.
Dubour, Henry N.,	74 Tenth st.,	Box Maker, 225 Liberty st.
Dunn, Charles N.,	207 Belmont ave.,	President, 385 Liberty st.
Dunham, Eugene E.,	47 Richelieu st.,	Carpenter, 60 Hollywood st.
Dunham, George B.,	7 Ashley st.,	Painter & Paper Hanger, 152 Oakland st.
Dunlap, Henry,	8½ Main st.,	Machinist, Unemployed.
Dunn, James E.,	24 Congress st.,	Clerk, 147 Main st.
Duquette, William S.,	13 Hampden st., I. O.,	Weaver, Hodges Fibre Carpet Co., I. O.
Dupuis, Ralph J.,	127 Berkshire st., I. O.,	Insurance Agent, 500 Main st.
Durgin, Freeman J.,	99 Revere st.,	Driver, 472 Union st.
Duval, Joseph M.,	154 Alden st.,	Ice Man, 195 Alden st.
Dwight, Robert N.,	Round Hill,	Foreman, 133 Bridge st.
Dwyer, Thomas J.,	564 Chestnut st.,	Manager, Front st., Chicopee Falls.
Eagan, Thomas, Jr.,	39 Locust st.,	Envelope Cutter, 21 Cypress st.
Earle, Charles W.,	122 Chestnut st.,	Paper Hanger, 29 Harrison ave.
Eastman, Leonard E.,	5 Osgood st.,	Draftsman, 132 Birnie ave.
Eaton, Charles Ed.,	10 Chestnut st.,	Mechanical Engineer, B. &. A. Railroad.
Eaton, Theodor,	W. S. Main st.,	Superintendent, Fred J. Richards, South Main st.
Eberhardt, Oscar A.,	47 Demond ave.,	Secretary, 15 Railroad ter.
Eddy, Schuyler B.,	57 Mulberry st.,	Insurance Agent, 288 Main st.
Edgar, Thomas E.,	420 Main st.,	Cigar Maker, 32 Hampden st.
Edwards, Wilbert H.,	70 Byers st.,	Painter, 442 Allen st.
Egan, William A.,	75 Albemarle st.,	Clerk, 389 Main st.
Ekberg, Andrew K.,	874 Liberty st.,	Wood Worker, 662 North Main st.
Ellis, Edward H., Jr.,	31 Chase ave.,	Assistant Manager, 60 Hampden st.
Ellison, Edward S.,	48 Mountainview st.,	Stock Clerk, 275 Chestnut st.
Elwell, Homer F.,	49 Broad st.,	Proprietor, 284 Birnie ave.
Ely, Walter E.,	782 Belmont av.,	Telephone Worker, 115 Liberty st.
Emery, George G.,	S. S. Allen st.,	Farmer, S. S. Allen st.
Emerson, John B.,	315 Chestnut st.,	Motorman, Hooker st., Car Barn.
Empsall, George H.,	29 Beechwood ave.,	Manufacturer, 41 Mill st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION
Engelhard, William A.,	27 Pratt st.,	Manufacturer, 200 Franklin st.
Englander, Albert,	657 Main st.,	Waiter, 657 Main st.
Eriksson, Charles,	25 Carlisle st.,	Shoe Maker, 41 Dwight st.
Estey, George Frederick,	29 Buckingham pl.,	Treasurer, 235-237 Chestnut st.
Eustis, Charles W.,	156 Central st.,	Reporter, 218 Main st.
Everton, Willard H.,	47 Bradford st.,	Meat Cutter, 30 Main st.
Ewig, Valentine L.,	796 Sumner ave.,	Private Secretary, 73 State st.
Fabian, Benedict S.,	90 Center st.,	Manager, Napier st.
Fabrizio, Rocco,	807 Worthington st.,	Shoe Maker, 586½ Main st.
Falls, Frank R.,	92 Firglade ave.,	Proprietor, 389 Main st.
Falt, Alonzo P.,	33 Berkeley st.,	Manager, 278 King st.
Farquhar, Herbert G.,	31 Maple st.,	Accountant, 309 Bridge st.
Farrar, Parke W.,	83 Harvard st.,	Draftsman, Front st., Chicopee Falls.
Faulds, John O.,	224 Main st., I. O.,	Machinist, Unemployed.
Fenner, Joseph C.,	30 Morgan st.,	Baker, 68 Church st.
Fennyery, Botond J.,	300 Belmont ave.,	Merchant, 302 Belmont ave.
Fenton, Joseph R.,	414 North Main st.,	Foreman, 354 Birnie ave.
Ferguson, George W.,	30 Maplewood ter.,	Wholesale Grocer, 16-18 Lyman st.
Ferguson, Walter J.,	663 State st.,	Traffic Manager, 495 Main st.
Fett, August,	403 Eastern ave.,	Tailor, 348 Main st.
Field, Harry G.,	182 Walnut st.,	Chauffeur, 43 Maplewood ter.
Figgie, Joseph T.,	45 Gardner st.,	Pressman, 14 Pynchon st.
Fillmore, Fred F.,	256 Bay st.,	Grocer, 172 Catharine st.
Finnerty, John F.,	558 Chestnut st.,	Helper, 305-307 State st.
Finnin, Edward B.,	55 Dunmoreland st.,	Clerk, 138-140 Main st.
Finton, Thomas J.,	123 Essex st.,	Machinist, 45 Sharon st.
Fitzgerald, Andrew,	53 Oak st.,	Teamster, Springfield Brewing Co., Fort st.
Fitzgerald, Arthur J.,	E. S. Emily st.,	Advertising Agent, M. F. Kirby, Worcester.
Fitzgerald, Garret,	13 Underwood st.,	Butcher, 16 Sanford st.
Fitzgerald, James M.,	50 Winthrop st.,	Bookbinder, 56 Harrison ave.
Fitzgerald, Michael,	32 Lexington st.,	Boiler Maker, B. & A. R. R. Co.
Fitzgerald, Miles,	214 North Main st.,	Painter, 140 State st.
Fitzgerald, Patrick,	S. S. Bay st.,	Farmer, S. S. Bay st.
Fitzgerald, Thomas F.,	81 Pynchon st.,	Driver, 37 Harrison ave.
Fitzpatrick, John B.,	82 Belmont ave.,	Plumber, 22-24 Dwight st.
Fitzpatrick, John E.,	15 Richelieu ct.,	Millwright, 662 North Main st.
Fitzsimmons, Joseph J.,	18 Prospect ter.,	Contractor, 166 Bridge st.
Flagg, Levi F.,	24 High st.,	Optician, 331 Main st.
Flanagan, Thomas J., Jr.,	619 State st.,	Assistant Manager, Springfield Brewery, Water st.
Flanagan, William J.,	13 Queen st.,	Compositor, 292 Main st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Flavel, Joseph,	17 Thorndyke st.,	Laundry Agent, 61 Taylor st.
Flechsig, Herman R.,	557 Berkshire ave.,	Baker, 41 Oak st., I. O.
Fleming, William H.,	101 Everett st.,	Laborer, 134 Cass st.
Fletcher, J Edwin,	96 Andrew st.,	Manager, 440-442 Main st.
Flood, Thomas M.,	50 Clinton st.,	Lineman, 283 Main st.
Flynn, Jeremiah,	28 Webster st.,	Foreman, 23 State st.
Flynn, John P.,	250 Main st., I. O.,	Plumber, 141 Main st.
Fogg, George H.,	47 Beech st.,	Driver, 123 Florence st.
Foley, Jeremiah,	11 Hampden st.,	Painter, State Sanitarium, Westfield.
Foley, Michael T.,	43 Brookline ave.,	Paper Manufacturer, 4 Birnie ave.
Footman, Matthew J.,	71 Cleveland st.,	Trainman, 236 Main st.
Forbes, Wilfred J.,	518 Liberty st.,	Clerk, 27 Lyman st.
Ford, Robert J.,	115 Berkshire st.,	Clerk, 292 Main st.
Fortier, Louis C.,	44 Mill st.,	Grocer Clerk, 666 Main st.
Foss, Arthur L.,	153 Bowles st.,	Bookkeeper, Collins Mfg. Co., North Wilbraham.
Foster, Cassius E.,	29 Walter st.,	Millwright, Bosch Magneto Co., North Main st.
Foster, Harry M.,	103 Garfield st.,	Claim Agent, 27 Lyman st.
Foster, Thomas W.,	23 Bliss st.,	Fireman, 295 Worthington st.
Fountain, Oliver E.,	597 (A) Main st.,	Wire Worker, foot Heywood st.
Fournier, Eugene,	48 Castle st.,	Builder, 48 Castle st.
Fowler, Frank M.,	204 Massachusetts ave.,	Salesman, 16 Sanford st.
Foy, James W.,	10 Armory st. ct.,	Retired.
Francis, Everett D.,	17 Spencer st.,	Real Estate Dealer, 25 Harrison ave.
Francis, Willard S.,	40 High st.,	Inspector, 33 Lyman st.
Franklin, George D.,	285 Carew st.,	Manager, 285 Carew st.
Fraser, Robert A.,	133 Carew st.,	Wholesale Liquor Dealer, 850-854 North st.
Fredette, Edward P.,	26 Niagara st.,	Lineman, 5 North Main st.
Freedman, Albert,	22 Pecousic ave.,	Tailor, 153 State st.
French, Cornelius R.,	58 Walnut st.,	Messenger, 500 Main st.
French, Fred W.,	34 Homer st.,	Stock Clerk, 837 State st.
French, Robert H.,	Vernon st.,	Printer, 395 Dwight st.
Fretts, George H.,	91 Woodside ter.,	Retired.
Friese, D. Fred,	66 Pynchon st.,	Compositor, 292 Main st.
Frost, Arthur B.,	61 Forest st.,	Manager, 485 Sumner ave.
Frost, Charles E.,	32 Emery st.,	Inspector, Page blvd.
Fuller, Frederic B.,	813 Armory st.,	Designer, 130 Birnie ave.
Fuller, Frederic W.,	120 Mill st.,	Manager, 317 Main st.
Fuller, George L.,	41 Orleans st.,	Shipping Clerk, 162 Chestnut st.
Fuller, Louis E.,	80 Dawes st.,	Clerk, 3 Post Office Square.
Fulton, John B.,	60 Bradford st.,	Foreman, 88 Birnie ave.
Furst, Alois,	164 Walnut st.,	Tailor, 383 Main st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Gagnier, Christopher I.,	Locust Hill,	Contractor, 327 Main st.
Gagnier, Samuel J.,	32 Eagle st.,	Carpenter, Bosch Magneto Co., North Main st.
Gagnon, Frank J.,	15 Donald st.,	Counterman, 198 Main st.
Gaige, Richard C.,	28½ Walnut st.,	Proprietor, 30 Walnut st.
Gallagher, Edward J.,	16 Tenth st.,	Motorman, 5 North Main st.
Gallagher, Thomas F.,	60 Pearl st.,	Bookkeeper, 54 Fort st.
Galvin, Thomas E.,	24 Governor st.,	Iceman, 24 Governor st.
Gamble, Thomas,	80 Parkside ave.,	Foreman, 46 Harrison ave.
Garber, Samuel,	112 Belle ave.,	Jitney Driver, 112 Belle ave.
Garen, Frank W.,	39 Parkwood st.,	Traveling Salesman, 267 Chestnut st.
Garver, William,	172 College st.,	Cigar Maker, Blackstone Cigar Co., Boston.
Garvey, John Joseph,	36 Benton st.,	Laborer, For the City.
Garvey, John W.,	67 Butler st.,	Inspector, 850 State st.
Garvey, Samuel E.,	37 Greenwood st.,	Assembler, foot Church st., West Springfield.
Garvey, William H.,	303 Eastern ave.,	Tire Maker, Front st., Chicopee Falls.
Gates, Albert W.,	15 Locust st.,	Electrical Engineer, 17 Worthington st.
Gates, Joseph H.,	24 Donald st.,	Electrician, 116 Liberty st.
Gendreau, Euclide,	W. S. Geneva ave.,	Carpenter, Unemployed.
Gendreau, Wilfred U.,	10 Rutledge ave.,	Salesman, 219 Worthington st.
Gibbons, David B.,	69 Tenth st.,	Machinist, 156 Wason ave.
Gibbs, J. Edwin,	63 Waverly st.,	Real Estate Dealer, 476 Main st.
Gibeau, Frank W.,	43 Central st.,	Carpenter, 73 State st.
Giblin, Edward E.,	76 Cambridge st.,	Reporter, 292 Main st.
Gidley, William S., Jr.,	34 Dorchester st.,	Photographer, Not employed.
Gilbert, Albert F.,	125 Garfield st.,	Clerk, 25 Market st.
Gilhooly, Frank H.,	26 Bancroft st.,	Bartender, 147 Main st.
Gill, James Milton,	150 Buckingham st.,	President, 47 Dwight st.
Gilmore, Dwight,	175 Maple st.,	Real Estate Dealer, 11 Elm st.
Gilmore, William J.,	119 Hampden st., I. O.,	Salesman, 211-213 Worthington st.
Gilpin, William J., Jr.,	18 Collins st.,	Agent, 500 Main st.
Girardeau, Frank,	21 Lombard st.,	Manager, 56 Old Bridge st., West Springfield.
Gladfelter, Harry,	25 Bancroft st.,	Cigar Maker, Unemployed.
Glazier, Julius Alic,	7 Marble st.,	Tailor, 827 Main st.
Gleason, George A.,	739 Sumner ave.,	Wire Weaver, 400 Liberty st.
Gliesman, Martin F.,	491 Allen st.,	Musician, 491 Allen st.
Glynn, Michael Joseph,	109 Clantoy st.,	Night Watchman, 1273 State st.
Goggin, Frank P.,	21 Seventh st.,	Paper Ruler, 214 Birnie ave.
Goldthwaite, Edward S.,	15 Edwards st.,	Insurance Agent, 374 Main st.
Gonyea, William J.,	295 Boston rd.,	Unemployed.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Goodell, William P.,	30 Portland st.,	Compositor, 381 Main st.
Goodrich, Leverett H.,	75 White st.,	Teamster, For the City.
Gore, Charles C.,	24 Homer st.,	Expressman, 24 Homer st.
Gore, Charles G.,	49 Queen st.,	Printer, 29 Sheffield st.
Gorey, Patrick,	113 Ashley st.,	Carpenter, Unemployed.
Gosselin, Louis N.,	447 Central st.,	Printer, 220 Franklin st.
Gould, Clifton L.,	53 Crystal ave.,	Retired.
Gour, Charles M.,	152 Quincy st.,	Machinist, 160 Wilbraham ave.
Gour, Leon J.,	20 Woodmont st.,	Building Contractor, 20 Woodmont st.
Grace, Frank R.,	33 Parkwood st.,	Traveling Salesman, 140 Mill st.
Grady, Henry J.,	81 Saratoga st.,	Meat Cutter, Elm st., West Springfield.
Granger, Telesphore J.,	359 Eastern ave.,	Paper Hanger, 776 State st.
Granger, Theodore, Jr.,	176 Quincy st.,	Steamfitter, 42 Harrison ave.
Graudlund, Oscar,	70 Albemarle st.,	Machinist, 662 North Main st.
Gravel, Homer D.,	19 Bristol st.,	Repairman, 62 Taylor st.
Graves, Harry L.,	86 Belle ave.,	Linotype Operator, 381 Main st.
Gray, John W.,	61 Monroe st.,	Chauffeur, 770 State st.
Green, Albert A.,	14 Dresden st.,	Conductor, 192 Worthington st.
Green, Daniel B.,	96 Everett st.,	Milk Man, 134 Cass st.
Greene, George A.,	50 Plainfield st.,	Engineer, 30 Appleton st., Holyoke.
Greene, Howard M.,	114 Dickinson st.,	Clerk, 178 State st.
Greenfield, William H.,	77 Norwood st.,	Porter, 331 Main st.
Gregoire, Leopold,	823 Carew st.,	Tool Maker, Bosch Magneto Co., North Main st.
Gridley, Albert A.,	15 Sorrento st.,	Salesman, 15 Sorrento st.
Griffin, David H.,	55 Walnut st.,	Electrician, 73 State st.
Griffin, Thomas D.,	60 Hall st.,	Webb Pressman, 27 Worthington st.
Griffin, Jeremiah,	254 Franklin st.,	Steamfitter, 23 State st.
Griffin, Maurice, Jr.,	925 Berkshire ave.,	Clerk, B. & A. Freight House.
Griffin, William F.,	789 Berkshire ave.,	Painter, 789 Berkshire ave.
Griswold, Robert,	238 North Main st.,	Electrotyper, 19 Worthington st.
Grout, Clarence E.,	739 Sumner ave.,	Clerk, 837 State st.
Gruenert, Carl Paul,	110 Bond st.,	Barber, 431 State st.
Grunnander, Carl,	19 Belgrade pl.,	Tailor, 26 Vernon st.
Gruttermeyer, William F.,	170 Massasoit st.,	Merchant, 283 North Main st.
Gubbins, John J.,	264 Springfield st.,	Heating Contractor, 328½ Worthington st.
Guertin, Philip,	216 Centre st., I. O.,	Grocer Clerk, 192 Main st., I. O.
Gunzberg, Herbert Louis,	11 Railroad st.,	Clothing Salesman, 236 Main st.
Gustafson, Carl,	19 Ashley st.,	Watchman, 41 Mill st.
Gutberlet, J. Henry,	103 Central st.,	Cutter, 96 Adams st.
Guterman, Hans W.,	36 Amherst st.,	Decorator, 417 Main st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Guyett, George A.,	97 Ashley st.,	Bookkeeper, 500 Main st.
Guyon, Alphonse,	274 Main st., I. O.,	Butcher, 41-45 Hampden st.
Haas, George A.,	100 Ashley st.,	Newspaperman, 381 Main st.
Hagerty, Daniel A.,	27 Sheldon st.,	Stage Hand, 103 Bridge st.
Haggerty, Florence L.,	70 Byers st.,	Mason Foreman, 495 Main st.
Haggerty, Patrick,	66 Cleveland st.,	Clerk, 361 Main st.
Haggerty, William J.,	12 Brookline ave.,	Insurance Agent, 29 Worthington st.
Hakes, Dwight W.,	86 Woodside ter.,	Real Estate Broker, 317 Main st.
Hale, Dennis B.,	214 Wilbraham rd.,	Clerk, 49 Lyman st.
Hall, Arthur M.,	291 Hickory st.,	Chef, Y. M. C. A. College, Hickory st.
Hall, D. Foster,	17 Sorrento st.,	Mechanic, 48 Harrison ave.
Hall, Edward H.,	399 Union st.,	Unemployed.
Hall, Ralph S.,	S. S. Davenport st.,	Chauffeur, Unemployed.
Halliday, Thomas W.,	57 Bancroft st.,	Paper Finisher, Fisk ave.
Halstead, Frank J.,	1563 North st.,	Assistant Clerk, 392 Main st.
Halstead, Harry C.,	1563 North st.,	Office Manager, 64 Dover st.
Halstead, Leroy W.,	168 North Main st.,	Merchant, 275 North Main st.
Hamilton, Cullen E.,	165 College st.,	Manufacturer, 88 Birnie ave.
Hammond, Cassius E.,	112 Spring st.,	Barber, 19 Harrison ave.
Hanks, Bert L.,	21 Carlisle st.,	Expressman, 21 Carlisle st.
Hanley, James J.,	21 Genesee st.,	Foreman, 29 Worthington st.
Hannon, Hugh F.,	50 Commonwealth ave.,	Manufacturer, 30 Taylor st.
Hannon, John,	36 Bradford st.,	Agent, 36 Bradford st.
Hannon, Maurice James,	119 Armory st.,	Truckman, 12 Hampden st.
Hannum, William L.,	140 Berkshire st.,	Janitor, 179 Main st., I. O.
Hanson, Fred O.,	169 Florida st.,	Manager of Paper Mill, Holyoke.
Hardie, Charles H.,	9 Harvard st.,	Manager, 349-359 Main st.
Hardwick, Arthur Frederick,	45 Adams st.,	Proofreader, 381 Main st.
Hare, Albert P.,	38 Main st.,	Real Estate Dealer, 38 Main st.
Harkins, Fred B.,	103 Belle ave.,	Motorman, 5 North Main st.
Harper, Lewis A.,	59 Bond st.,	Motorman, 5 North Main st.
Harrington, Michael,	71 Adams st.,	Meat Cutter, 138 Main st.
Harrington, Timothy J.,	58 Webster st.,	Iron Worker, Unemployed.
Harrington, William F.,	55 Massasoit st.,	Merchant, 53 Massasoit st.
Harrington, William J.,	35 Ledyard st.,	Butter Maker, 132 Cass st.
Hart, Walter J.,	150 White st.,	Salesman, Page Boulevard.
Hartenstein, Louis C.,	224 Main st.,	Hotel Keeper, 224 Main st.
Hartmann, George L.,	83 Center st.,	Chauffeur, 83 Center st.
Hartwell, Frank O.,	99 Chapin ter.,	Superintendent, 118 Fisk ave.
Harvey, Frederic H.,	288 Chestnut st.,	Dentist, 288 Chestnut st.
Harvey, George W.,	267 Hancock st.,	Carpenter, Oak st., I. O.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Havens, Herbert G.,	74 Beaumont st.,	Unemployed.
Hawes, Leon E.,	48 Garfield st.,	Merchant, 416 Main st.
Hawkins, Royal D.,	304 Union st.,	Window Decorator, 421 Main st.
Hawley, Myron L.,	23 Osgood st.,	Merchant, 23 Osgood st.
Hayes, Daniel,	102 Gardner st.,	Foreman, 10 Hanover st.
Hayes, Irving C.,	14 Dresden st.,	Teller, 241 Main st.
Hayes, Timothy P.,	226 High st.,	Watchman, 392 Main st.
Hayman, Maurice,	264 Franklin st.,	Insurance Agent, 500 Main st.
Heald, Herbert,	610 North Main st.,	Shipping Clerk, Fisk ave.
Healey, Thomas,	rear 201 Main st., I. O.,	Molder, Springfield Foundry.
Healy, Charles H., Jr.,	336 Central st.,	Superintendent, 409 Besse pl.
Healy, Martin H.,	63 North Main st.,	Insurance Agent, 17 Worthington st.
Healy, Martin R.,	635 State st.,	Engineer, Metal Screw Co., Chicopee.
Heath, Elden G.,	77 Hampden st., I. O.,	Shipping Clerk, Worcester st., I. O.
Hebard, William H.,	20 Grant st.,	Buyer, 216 Worthington st.
Hebert, Homer Joseph,	27 Margaret st.,	Painter, 983 Main st.
Hechler, Herman,	34 Greenwood st.,	Contractor, 34 Greenwood st.
Heenehan, Michael J.,	27 Washburn st.,	Draftsman, Wason ave.
Heffner, Charles J.,	41 Manhattan st.,	Cable Splicer, 210 Alden st.
Heidel, Charles M.,	80 Massachusetts ave.,	Cashier, 195 State st.
Henderson, Walter,	585 Sumner ave.,	Lumber Salesman, 145 State st.
Hennesey, Matthew J.,	100 Prospect st.,	Inspector, 983 Main st.
Hennessey, James J.,	256 King st.,	Mason, 256 King st.
Hennessey, John B.,	53 Bradford st.,	Printer, 292 Main st.
Hennessey, Martin J.,	65 Prospect st.,	Business Agent, 389 Main st.
Hennessey, William A.,	732½ Main st.,	Plumber, 14 Market st.
Hertzmark, David E.,	64 Grosvenor st.,	Printer, 25 Worthington st.
Hewinson, Wallace R.,	129 Bowles st.,	Plumber, 19 Wilbraham ave.
Hickey, Jeremiah E.,	246 King st.,	Salesman, 287 Main st.
Hickey, Michael J.,	45 Charles st.,	Shop Hand, Unemployed.
Higgins, John E.,	172 Carew st.,	Watchman, 5 North Main st.
Hildreth, Benjamin E.,	182 College st.,	Manager, 131 North Main st.
Hill, Paul,	68 Adams st.,	Janitor, 500 Main st.
Hillier, George,	454 Union st.,	Mason, 495 Main st.
Hiney, Patrick,	147 Chicopee rd.,	Truckman, 147 Chicopee rd.
Hjelm, Charles B.,	830 St. James ave.,	Assembler, 89 Logan st.
Hoar, Thomas Joseph,	59 Genesee st.,	Fireman, 177 Liberty st.
Hodgdon, Leander O.,	8 Greenacre square,	Salesman, 439 Main st.
Hofbauer, George J.,	42 Colonial ave.,	Superintendent, Cor. Liberty & Charles sts.
Hogan, Daniel J.,	542 Chestnut st.,	Plumber, 542 Chestnut st.
Hogan, Denis A., Jr.,	56 Vinton st.,	Clerk, J. P. Squire Co., Cambridge.
Hogan, James J.,	670 Carew st.,	Laborer, 96 Summer st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Hogan, Myles C.,	38 Arch st.,	Taxi Service, 87 Bridge st.
Hogan, Thomas F.,	38 Chapel st.,	Barber, 784 State st.
Holbrook, George M.,	140 Maple st.,	Manufacturer, Holyoke.
Holland, Arthur J.,	716 Worthington st.,	Salesman, 469 State st.
Holmes, Frederick M.,	52 Seventh st.,	Foreman, Tryme Manufacturing Co., Westfield.
Holmes, Joseph E.,	387 Union st.,	Banker, 63 Elm st.
Homon, Joseph, Jr.,	68 Broad st.,	Machinist, Unemployed.
Hooker, Louis W.,	14 Holland st.,	Superintendent, Sp. Provision Co., Brightwood.
Hope, Sherman T.,	11 Boston ave.,	Clerk, 451 Main st.
Hopper, Wilber F.,	31 Maple st.,	Traveling Salesman, 31 Maple st.
Horton, Wilson J.,	304 Central st.,	Slater, 304 Central st.
Hosley, Frank M.,	59 Demond ave.,	Machinist, Wason ave.
Hosley, Nelson R.,	12 Brookline ave.,	Insurance Agent, 14 Fort st.
Hough, Alfred L.,	384 Armory st.,	Motorman, 5 North Main st.
Houghton, Harold D.,	87 Armory st.,	Laundryman, Thompsonville, Ct.
Houlihan, Michael,	51 Auburn st.,	Machinist, B. & M. R. R. Co.
Houlihan, William F.,	51 Auburn st.,	Bartender, 63 Bridge st.
House, Samuel,	68 Margaret st.,	Tinsmith & Plumber, 68 Margaret st.
Howard, George E., Jr.,	165 Mill st.,	Manager, 165 Mill st.
Howard, Thomas J.,	30 Marble st.,	Foreman, For the City.
Howes, Harry W.,	66 Auburn st.,	Compositor, 53 Hillman st.
Hoyt, Charles L.,	6 Temple st.,	Furrier, 508 Main st.
Hubbard, Fred A.,	80 Florida st.,	Manager, 317 Main st.
Hubbard, George A.,	48 Keith st.,	Real Estate Dealer, 48 Keith st.
Huck, John L.,	22 Cherrelyn ave.,	Towerman, 236 Main st.
Huettner, Christian J.,	141 Union st.,	Storekeeper, 595 Main st.
Hughes, Alfred W.,	294 Quincy st.,	Carpenter, 127 Monroe st.
Hull, Harry A.,	56 Cortland st.,	Plumber, Quincy.
Hunt, Charles E.,	71 Knox st.,	Cigar Maker, Not Employed.
Huntley, Frank S.,	437 Main st.,	Carpenter, 32 Malden st.
Hurley, James J.,	55 Washburn st.,	Shipping Clerk, 214 Birnie ave.
Hurst, Allan G.,	12 Pynchon st.,	Office Manager, 12 Pynchon st.
Hutchins, Edward C.,	127 St. James ave.,	Manufacturer, 278 Chestnut st.
Hutchinson, Randolph H.,	67 Girard ave.,	Filer, Unemployed.
Hynes, Andrew T.,	55 Cass st.,	Printer, 381 Main st.
Hynes, Edward V.,	57 Cass st.,	Conductor, Hooker St. Car Barn.
Iredale, Harry W.,	409 Franklin st.,	Box Maker, 225 Liberty st.
Isherwood, William A.,	146 Bay Path,	Plumber, 37 Market st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Jackson, Dane D.,	3 Lincoln st.,	Salesman, 145 State st.
Jackson, Edward F.,	20 Dresden st.,	Traveling Salesman, John Morrell, Ottawa, Ohio.
Jackson, Frank W.,	123 Buckingham st.,	Merchant, 352 Bay st.
Jacobus, Clarence W.,	129 Buckingham st.,	Train Dispatcher, B. & A. R. R. Co.
Jacques, George,	328 Main st., I. O.,	Machinist, Ludlow Mfg. Co.
Jacques, Homer Ralph,	45 Berkshire st.,	Painter, 140 State st.
Jahn, Max F.,	N. S. Boston rd.,	Florist, N. S. Boston rd.
Jamieson, George,	94 Dawes st.,	Painter, 94 Dawes st.
Janes, Albert P.,	24 Spruceland ave.,	Manager, American Writing Paper Co., Holyoke.
Janes, John Wallace,	63 Chester st.,	Cook, 282 Main st.
Janes, Thomas I.,	11 Brown st.,	Insurance Agent, 20 Worthington st.
Jefferson, George N.,	294 North Main st.,	Retired.
Jennings, Harold L.,	N. S. Wilbraham rd.,	Blacksmith, N. S. Wilbraham rd.
Jewett, Harry G.,	8 Waverly st.,	Foreman, 130 Birnie ave.
Johnson, Charles F.,	146 Massachusetts ave.,	Salesman, 98 Wason ave.
Johnson, R. Elton,	9 Grant st.,	Shipping Clerk, 37 Harrison ave.
Johnston, Andrew M.,	70 Main st.,	Salesman, 123 Carew st.
Jolie, Edward J.,	166 Hampden st., I. O.,	Merchant, 159½ Main st., I. O.
Jones, Frederic M.,	84 Spring st.,	Bookkeeper, 56 Harrison ave.
Jones, George,	476 North Main st.,	Laborer, 336 Birnie ave.
Jones, George L.,	37 Sargeant st.,	Clerk, 345 Main st.
Jones, William H.,	23 Bliss st.,	Janitor, 23 Bliss st.
Jordan, George C.,	122 Greene st.,	Inspector, 210 Alden st.
Joslyn, George B.,	60 Garfield st.,	Bookkeeper, 60 Garfield st.
Joubert, Moses,	52 Edgemont st.,	Carpenter, P. H. Provensol, Ware.
Kane, Joseph J.,	379 Chicopee rd.,	Paper Cutter, Front st., Chicopee Falls.
Kaplinger, Charles H.,	832 Chestnut st.,	Manager, 28 Fort st.
Kavanagh, Joseph P.,	108 Hampden st., I. O.,	Foreman, Cudahy Packing Co, Holyoke.
Keane, Joseph,	37 Parkside ave.,	Shoe Maker, 328 Worthington st.
Keating, William J.,	142 Cedar st.,	Cigar Maker, Not employed.
Keefe, Daniel F.,	15 Merrick ave.,	Druggist, 180 Hancock st.
Keefe, Mortimer J.,	97 Greene st.,	Clerk, 10 Main st.
Keefe, Richard P.,	23 Wolcott st.,	Clerk, 385 Liberty st.
Keegan, Thomas F.,	224 Main st.,	Painter, Sp. Rendering Co., Chicopee.
Keevil, Alfred,	20 Hayden st.,	Baker, 864 State st.
Keller, George,	32 (A) Bradford st.,	Merchant, 222 Main st.
Kelley, James T.,	79 Ashley st.,	Mason, Unemployed.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Kelley, John D.,	44 State st.,	Dancing Teacher, 44 State st.
Kelliher, Dennis P.,	42 Tenth st.,	Pressman, 29 Worthington st.
Kellogg, Henry N.,	370 Belmont ave.,	Chauffeur, 123 Carew st.
Kelly, Anthony T.,	440 Sumner ave.,	Manager, 219 Dwight st.
Kelly, John Joseph,	36 Chapel st.,	Tire Maker, Front st., Chicopee Falls.
Kelly, William J.,	86 Amherst st.,	Manager, 274 Main st.
Kelly, William M.,	39 Greenwood st.,	Sash Maker, 25 Market st.
Kennedy, Stephen Joseph,	187 Carew st.,	Clerk, 98 Wason ave.
Kennedy, Timothy,	75 Linden st.,	Molder, Pine st., I. O.
Kennefick, John J., Jr.,	24 Clinton st.,	Messenger, 5 North Main st.
Kennefick, Richard,	65 Essex st.,	Polisher, 983 Main st.
Kennely, Daniel John,	79 North Main st.,	Conductor, 5 North Main st.
Kenney, Patrick J.,	250 Hancock st.,	Merchant, 254 Hancock st.
Kervick, Richard,	442 Allen st.,	Painter, 442 Allen st.
Kilgour, James,	22 Acushnet ave.,	Plumber, Unemployed.
Kimball, Charles P.,	112 College st.,	Photographer, 257 Main st.
Kimball, George W.,	120 Spring st.,	Manager, 11 Water st.
King, Lyman H.,	12 Sherman st.,	Traffic Manager, 318 Main st.
King, Raymond E.,	28 Dresden st.,	Assistant Foreman, 837 State st.
King, Samuel,	618 Sumner ave.,	Tailor, 219 Main st.
Kingsbury, George O.,	34 Dickinson st.,	President, 278 Chestnut st.
Kinsler, Mayer G.,	347 Belmont ave.,	Merchant, 148 Main st.
Kipp, Walter C.,	134 Carew st.,	Foreman, B. & A. R. R. Co., West Springfield.
Kirkland, Alfred E.,	319 State st.,	Accountant, Foot of Church st., West Springfield.
Kirkpatrick, William E.,	19 Beacon st.,	Teamster, 19 Beacon st.
Kittel, Ernest J.,	5 Brown st.,	Jeweler, 19 Besse place.
Kling, Elmer M.,	46 Bancroft st.,	Salesman, Foot of Church st., West Springfield.
Knapp, Harry H.,	367 Belmont ave.,	Traveling Salesman, 451 Main st.
Kneeland, Frank A.,	35 Eldridge st.,	Truckman, 119 Liberty st.
Kneif, Frank,	116 Andrew st.,	Printer, Warwick ave.
Knight, Arthur,	26 Pomona st.,	Mechanical Engineer, Front st., Chicopee Falls.
Knight, Edwin Leroy,	81 Adams st.,	Grocer, 610 Main st.
Knodel, Frederick W.,	46 Benton st.,	Lithographer, 140 Wilbraham ave.
Knox, Charles D.,	48 Biltmore st.,	Bookkeeper, 88 Birnie ave.
Knox, James E.,	45 Portland st.,	Carpenter, 134 Cass st.
Korman, Joseph F.,	23 Clantoy st.,	Printer, Warwick ave.
Kraus, George,	150 Cedar st.,	Waiter, Cor. Hillman & Barnes sts.
Krupke, William,	18 Victoria st.,	Laborer, 57 Willow st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Kuenzel, Christopher W.,	12 Goodrich st.,	Watch Maker, 119 State st.
Kuhn, Ernest H.,	55 Harriet st.,	Printer, 149 Wason ave.
Labaree, Julius W.,	51 Massachusetts ave.,	Clerk, 92 Wilbraham rd.
LaBier, Joseph,	392 Main st., I. O.,	Chauffeur, Miner Chocolate Co., Berkshire ave.
LaBonte, Arthur Leon,	11 Trinity ter.,	Salesman, 168 Bridge st.
Lacy, John,	209 Walnut st.,	Printer, 379 Main st.
LaFrancis, Walter J.,	E. S. Barrison st.,	Filer, Unemployed.
Lamb, James L.,	53 Bradford st.,	Druggist, 323 Main st.
Lambert, Michael K.,	60 Dawes st.,	Painter, Unemployed.
LaMere, Frank,	214 Centre st.,	Weaver, Hodges Fibre Carpet Co., I. O.
Lamier, Albert B.,	160 Hickory st.,	Bookkeeper, 195 Alden st.
Landers, John P.,	86 Armory st.,	Electric Operator, 44 Taylor st.
Lane, Elmer G.,	259 Massasoit st.,	Shipping Clerk, 354 Birnie ave.
Lane, Harry H.,	21 Ormond st.,	Confectioner, 21 Ormond st.
Langdon, Lucius C.,	27 Bliss st.,	Electrician, Worcester st., I. O.
Lange, Arthur E.,	1 Lincoln st.,	Manager, 33 Lyman st.
Langlois, Napoleon L.,	375 Chicopee rd.,	Steam Fitter, Unemployed.
LaPlant, Frederick A.,	13 College st.,	Helper, 373 Plainfield st.
Laporte, Fred R.,	35 Worcester ave.,	Tool Maker, Page blvd.
Laporte, M. Albert,	40 High st.,	Instructor, 94-96 Broadway.
Larabee, Aristide J.,	48 Burr st.,	Barber, 369 Worthington st.
Laramie, Fred B.,	390 Main st.,	Machine Operator, Unemployed.
Lard, Francis A.,	10 Ashmont st.,	Salesman, 10 Ashmont st.
Lareau, Thomas,	341 Eastern ave.,	Grinder, 837 State st.
La Riviere, Victor H.,	178 Boston rd.,	Copy Holder, 292 Main st.
Larkin, John W.,	37 Douglas st.,	Real Estate Agent, 37 Douglas st.
Larkin, William F.,	38 Sterns ter.,	Buyer, 392 Main st.
Larose, Ernest,	218 Centre st., I. O.,	Painter, Indian Orchard Co., I. O.
Larrabee, Fred B.,	30 Myrtle ter.,	Lumber Dealer, Page blvd.
Lasbury, Carl W.,	182 College st.,	Auto Repairman, 521 Worthington st.
Lathrop, Paul H.,	166 Buckingham st.,	Photographer, 317 Main st.
Laurino, John B.,	64 Quincy st.,	Barber, 915 State st.
LaValley, Frederick J.,	209 Walnut st.,	Printer, 379 Main st.
Lavigne, Arthur B.,	298 Main st., I. O.,	Insurance Agent, 387 Main st.
Lawless, James F.,	52 Vinton st.,	Plumber, 11 Elm st.
Lawton, William,	29 Talcott ave.,	Machinist, Unemployed.
Leach, Charles D.,	1340 Berkshire ave.,	Electrician, Ludlow Mfg. Co., Ludlow.
Leary, Daniel C.,	65 Kenwood Park,	Collector, Boston.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Leary, Eugene C.,	60 Pearl st.,	Jeweler, 135 State st.
Leary, Thomas,	113 Clantoy st.,	Mason, 495 Main st.
Lee, Frank J.,	791 Main st.,	Traveling Salesman, Cook, Watkins Marble Works, Boston.
Lee, Philip W.,	110 Clarendon st.,	Insurance Agent, 289 Main st.
Leech, Howard C.,	16 Amherst st.,	Wholesaler, 16 Amherst st.
Legrand, Tellesphor,	334 Main st., I. O.,	Laborer, Worcester st., I. O.
Leitch, William M.,	267 Boston rd.,	Manager, 181 Dwight st.
Lemley, Frank H.,	69 Clarendon st.,	Salesman, 69 Clarendon st.
Leonard, John F.,	311 State st.,	Steward, 311 State st.
Leonard, John W.,	140 Franklin st.,	Conductor, 5 North Main st.
Lester, John J.,	843 Chestnut st.,	Real Estate Dealer, 843 Chestnut st.
Letts, William,	607 Main st.,	Painter, 140 State st.
Levine, Noah B.,	117 Florida st.,	Real Estate Dealer, 117 Florida st.
Lewis, Arthur B.,	233 Forest Park ave.,	Merchant, 461 Main st.
Lewis, Edward C.,	27 Clifford st.,	Clerk, 331 Main st.
Lewis, Ernest T.,	999 Allen st.,	Farmer, 999 Allen st.
Lewis, Everett W.,	9 Armory st.,	Civil Engineer, 73 State st.
Lewis, Harry W.,	19 Wareham st.,	Manager, 74 Park st.
Lewis, Robert E.,	69 Massachusetts ave.,	Salesman, 24 Lyman st.
Leyden, Francis,	161 Main st.,	Machinist, Not Employed.
Lillie, Lucien B.,	36 Clarendon st.,	Waste Manufacturer, Front st., I. O.
Linder, Eugene E.,	21 Waverly st.,	Merchant, 221 North Main st.
Lindquist, Carl John,	156 College st.,	Meat Cutter, 96 Eastern ave.
Linehan, John J.,	35 Central st.,	Molder, Metals Production Equipment Co., Brightwood.
Litch, Arthur L.,	34 Florence st.,	Expressman, 43 Fort st.
Litchard, Martin K.,	15 Temple st.,	Supervisor, 31 Harrison ave.
Locke, Walter M.,	41 Chase ave.,	Real Estate Dealer, 381 Main st.
Loeb, Henry	108 Florida st.,	Second Vice-President, 500 Main st.
Lomme, Carl E.,	83 Pine st.,	Clerk, 11 Cross st.
Long, Leslie A.,	45 Magazine st.,	Real Estate Broker, 45 Magazine st.
Lorenzi, Ulysses J.,	122 Chestnut st.,	Assistant Manager, 192 Worthington st.
Lougee, Charles T.,	315 King st.,	Carpenter, 315 King st.
Lougharan, Michael W.,	20 Summit st.,	Truck Driver, 36 Lyman st.
Lovejoy, Frank O.,	81 Berkshire st., I. O.,	Department Manager, Worcester st., I. O.
Lovett, George P.,	490 Chestnut st.,	Traveling Salesman, 148 Lyman st.
Lovett, Jesse H.,	42½ Harrison ave.,	Cigar Maker, 459 Worthington st.
Lovett, Thomas H.,	28 Leonard st.,	Foreman, 662 North Main st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Low, J. Frank,	45 Locust st.,	Insurance Agent, 500 Main st.
Lowe, Irwin B.,	290 Bridge st.,	Salesman, Pasco rd., I. O.
Loynes, George B.,	82 Pearl st.,	Bookkeeper, 292 Main st.
Lucas, George H.,	8 Riverview ter.,	Paymaster, 236 Main st.
Luce, William R.,	28 Ashmont st.,	Paper Hanger, 28 Ashmont st.
Ludwig, William J.,	11 Columbia ter.,	Tool Maker, Unemployed.
Lussier, George F.,	591½ Main st.,	Unemployed.
Lussier, Henry,	93 Florence st.,	Repairman, 35 State st.
Lussier, Louis,	420 North Main st.,	Foreman, Spfd. Provision Co., Brightwood.
Lutz, Jacob G.,	83 Firglade ave.,	Lithographer, 67 Taylor st.
Lyman, John W.,	115 Essex st., I. O.,	Machinist, Pine st., I. O.
Lynch, Charles E.,	55 Maplewood ter.,	Merchant, 367 Main st.
Lynch, Jeremiah W.,	177 Hampshire st., I. O.,	Chauffeur, 134 Wilbraham rd.
Lynch, Stephen P.,	93 Florence st.,	Mason, 93 Florence st.
Lyon, Leon A.,	68 Waverly st.,	Motorman, 5 North Main st.
Lyons, James,	562 Armory st.,	Teamster, 24 Lyman st.
Lyons, James J.,	19 Summit st.,	Foreman, 7 Worthington st.
Lyons, Lewis,	61 Potter pl.,	Janitor, Unemployed.
MacCarter, Allison H.,	12 Cortland st.,	Salesman, 55-63 Lyman st.
MacDonald, William D.,	538 Sumner ave.,	Insurance Adjuster, 317 Main st.
Mack, James,	27 Underwood st.,	Wire Weaver, 417 Liberty st.
Macken, Patrick J.,	20 Gunn square,	Manager, 205 Worthington st.
Madden, John G.,	9 York st.,	Salesman, Asylum st., Hartford, Ct.
Madden, Michael J.,	276 Armory st.,	Picture Maker, Warwick ave.
Madison, Lester E.,	34 Charter ave.,	Machinist, 123 Carew st.
Magnuson, Enoch F.,	63 Federal st.,	Farm Manager, Longmeadow.
Maguire, Everett T.,	21 Massachusetts ave.,	Service Manager, 53 Wilbraham rd.
Maher, James P.,	132 Myrtle st., I. O.,	Clerk, Pine st., I. O.
Mahoney, Daniel,	35 Brookline ave.,	Inspector, Municipal Bldg.
Mahoney, Michael,	83 Elm st.,	Machinist, Bosch Magneto Co., No. Main st.
Maloney, James T.,	16 Vinton st.,	Teamster, 54 Hampden st.
Manley, Gilbert E.,	185 Belmont ave.,	Clerk, 141 Lyman st.
Manning, Chauncey P.,	133 Springfield st.,	Assistant Engineer, 132 Liberty st.
Manning, James,	61 Linden st.,	Cooper, 61 Linden st.
Manning, John J.,	34 Bancroft st.,	Battery Man, 95 Broadway.
Mannix, John T.,	30 Church st.,	Cook, 96 State st.
Mannix, Thomas P.,	17 Sorrento st.,	Shipping Clerk, 19 Worthington st.
Mansfield, John,	822 Carew st,.	Boiler Maker, 236 Main st.
Manson, George C.,	49½ Ashley st.,	Bookkeeper, Unemployed.
Manzi, James D.,	393 Birnie ave.,	Foreman, Spfd. Provision Co., Brightwood.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Marceau, Ferdinand,	26 Berkshire st., I. O.,	Time Clerk, Pine st., I. O.
Marchese, Vincenzo Michele,	43 Walnut st.,	Store Keeper, 43 Walnut st.
Marcott, William E.,	60 Bliss st.,	Painter, Windsor Locks, Ct.
Marengo, Henry,	17 Thomas st.,	Painter, 17 Thomas st.
Marlowe, Ulysses,	136 Main st., I. O.,	Shipping Clerk, Hodges Fibre Carpet Co., I. O.
Marquette, Frank L.,	32 Myrtle st.,	Chauffeur, 83 Ridgewood ter.
Marren, John Francis,	86 Armory st.,	Baker, 280 Main st.
Marsh, Edward S.,	12 Harriet st.,	Conductor, 5 North Main st.
Marsh, George W.,	17 Congress st.,	Painter, 15 Market st.
Marshall, John E.,	617½ Main st.,	Laborer, 837 State st.
Marshall, Marvin A.,	8 Terrence st.,	Credit Man, 45 Hampden st.
Marsian, Ernest Jurgen,	62 Chester st.,	Bartender, 81 State st.
Martikke, George A.,	44 Spring st.,	Lithographer, Warwick ave.
Martinelli, Giovanni,	36 Central st.,	Clerk, 430 Dwight st.
Mathews, Albert A.,	96 Howard st.,	Sheet Metal Worker, 624 Worthington st.
Matthews, George E.,	33 E. Hooker st.,	Bookkeeper, Front st., C. Falls.
Mattice, Herbert L.,	24 High st.,	Traveling Salesman, 24 High st.
Maude, Harry Isaiah,	50 Sherman st.,	Cutter, 74 Park st.
Maxfield, Samuel W.,	108 North Main st.,	Agent, 477 Main st.
Mayer, Carl August,	363 North Main st.,	Superintendent, Bosch Magneto Co., No. Main st.
Mayo, George E.,	Stebbins place,	Shipping Clerk, Front st., C. Falls.
Mayon, Carroll B.,	77 Elm st.,	Assistant Manager, 211 Main st.
Mayon, Henry,	212 Centre st., I. O.,	Weaver, Hodges Fibre Carpet Co., I. O.
McAnanama, George F.,	71 Wait st.,	Compositor, 381 Main st.
McBride, Daniel,	506 Liberty st.,	Taxi Business, 506 Liberty st.
McBride, John J.,	79 North Main st.,	Printer, Wason ave.
McCaffrey, John J.,	57 Narragansett st.,	Proprietor, 6 Main st.
McCann, Raymond B.,	46 Ringgold st.,	Electrician, 29 Worthington st.
McCann, Terrence,	48 Sheldon st.,	Clerk, 214 Dickinson st.
McCann, William J.,	19 Dunmoreland st.,	Retired.
McCarthy, Charles,	124 Essex st.,	Watchman, Front st., C. Falls.
McCarthy, Charles F.,	18 Crane st.,	Freight Clerk, Charles st.
McCarthy, Charles J.,	104 Prospect st.,	Claim Agent, 5 North Main st.
McCarthy, Daniel F.,	1109 North st.,	Motorman, 5 North Main st.
McCarthy, Daniel J.,	12 Demond ave.,	Motorman, 5 North Main st.
McCarthy, Daniel J.,	20 Huntington st.,	Pressman, 220 Franklin st.
McCarthy, Dennis,	151 Colton st.,	Laborer, for the City.
McCarthy, Florence C.,	82 Bridge st.,	Fireman, 194 Worthington st.
McCarthy, Thomas,	74 Berkshire st., I. O.,	Playground Manager, I. O.
McCarthy, Timothy,	18 Crane st.,	Foreman, 197 Armory st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
McCarty, Frank J.,	14 Raymond ave.,	Lithographer, 49 Willow st.
McCollister, Bertram,	191 Main st.,	Bartender, 191 Main st.
McCombe, Joseph,	24 Donald st.,	Foreman, 156 Wason ave.
McCombe, William John,	25 Portland st.,	Bookkeeper, 22 Taylor st.
McCormick, Edward J.,	3 Birnie ave.,	Roofer, 3 Birnie ave.
McCormick, John F.,	405½ Chestnut st.,	Roofer, 405½ Chestnut st.
McCormick, John J.,	49 Worcester ave.,	Pressman, 149 Wason ave.
McDermott, James, Jr.,	125 Greenwood st.,	Stock Clerk, 64 Harrison ave.
McDermott, Thomas B.,	125 Greenwood st.,	Truck Driver, 3 Bay ave.
McDonald, Edward J.,	38 Roseland st.,	Motorman, 5 North Main st.
McDonald, Michael J.,	28 Roseland st.,	Motorman, 5 North Main st.
McElwain, Charles C.,	46 Federal st.,	Manager, 37 Harrison ave.
McGenness, James,	52 Euclid ave.,	Carpenter, 556 Worthington st.
McGowan, James,	128 Hampden st., I.O.,	Baker, Unemployed.
McGrath, John E.,	176 Abbe ave.,	Laborer, 373-377 Plainfield st.
McIntosh, Robert C.,	631 State st.,	Receiver, 53 Wilbraham rd.
McIntyre, Owen A.,	33 Cherryvale ave.,	Broker, 318 Main st.
McKean, Carl R.,	76 Clantoy st.,	Teamster, 241 North Main st.
McKelleget, Thomas C.,	1080 Carew st.,	Mechanic, Unemployed.
McKenna, Maurice Paul,	49 Prospect st.,	Bartender, 190 Main st.
McKeon, James J.,	263 Eastern ave.,	Traffic Manager, 203 Hampshire st., I. O.
McKeon, Thomas,	59 Genesee st.,	Bartender, 685 North st.
McKinnon, James,	57 High st.,	Photo Engraver, 257 Main st.
McMahon, Joseph J.,	23A Main st.,	Shipping Clerk, 2 Mill st.
McMaster, George E.,	60 Catharine st.,	Merchant, 178 State st.
McMaster, William D.,	208 Hancock st.,	Ice Dealer, 208 Hancock st.
McNamara, Charles A.,	55 Massachusetts ave.,	Jeweler, 121 Worthington st.
McNaughton, James B.,	42 Albemarle ave.,	Salesman, 837 State st.
Meehan, William H.,	129½ Essex st.,	Cigar Maker, 129½ Essex st.
Meerworth, George H.,	31 Moore st.,	Box Maker, Fisk ave.
Menard, Victor J.,	6 Carlisle st.,	Expressman, 6 Carlisle st.
Merchant, Charles,	18 Wolcott st.,	Plumber, 240 Main st.
Mercolino, Enrico,	63 William st.,	Polisher, 837 State st.
Meron, Charles,	60 Johnson st.,	Weaver, Hodges Fibre Carpet Co., I. O.
Merriam, Frank C.,	16 Clifford st.,	Purchasing Agent, 9 Montgomery st., Chicopee Falls.
Merrick, Carl W.,	46 West Alvord st.,	Insurance Agent, 317 Main st.
Merrick, Herbert S.,	450 Chicopee rd.,	Janitor, Front st., C. Falls.
Merritt, Everett L.,	5 Ventura st.,	Salesman, 5 Ventura st.
Merry, William E., Jr.,	34 Catharine st.,	Commercial Traveler, Roxbury Crossing Station, Boston.
Merton, Bruce,	73 Sherman st.,	Sexton, 45 Buckingham st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Messner, Andrew C. G.,	3 Fenwick ave.,	Foreman, 140 Wilbraham ave.
Methe, Isaie Narcisse,	58 Armory st.,	Manager, 493 Worthington st.
Methot, Eusebe,	268 Worcester st., I. O.,	Machine Operator, 837 State st.
Meunier, Henry,	129 Berkshire st., I.O.,	Weaver, Indian Orchard Co., I. O.
Miles, George T.,	314 Springfield st.,	Cooper, Spfd. Rendering Co., Chicopee.
Miller, Charles R.,	32 Byers st.,	Manager, 145 State st.
Miller, Frederick W.,	24½ Burr st.,	Trucker, 837 State st.
Miller, John H.,	123 Fort Pleasant ave.,	Art Dealer, 21 Harrison ave.
Miller, Robert S.,	17 Crest st.,	Cigar Maker, 451 Main st.
Miner, William H.,	75 Saratoga st.,	Grocer, 71 Saratoga st.
Minney, Oliver F.,	176 Center st.,	Weaver, Hodges Fibre Carpet Co., I. O.
Minor, Arlon R.,	s. s. Davenport st.,	Foreman, for the City.
Mitchell, Patrick J.,	145 Bond st.,	Grain Dealer, 232 Chestnut st.
Mitchell, Willard B.,	24 Byers st.,	Insurance Agent, 318 Main st.
Moakler, James C.,	80 Bowles st.,	Traveling Salesman, 411 Main st.
Moffett, Alexander,	63 Knox st.,	Teamster, 102 Locust st.
Moody, Bertram O.,	705 Belmont ave.,	Clerk, 130 Birnie ave.
Mooney, Thomas,	25 Broad st.,	Machinist, Unemployed.
Moore, Burton H.,	11 Marble st.,	Machine Operator, 262 Liberty st.
Moore, Clarence C.,	62 West Alvord st.,	Manager, 293 Bridge st.
Moore, James W.,	21 Orleans ct.,	Machinist, B. & A. R R.
Moore, Ralph A.,	108 Cambridge st.,	Clerk, Ludlow Mfg. Associates, Ludlow.
Moore, Richard G.,	37 Forest st.,	Carpenter, 264 Main st.
Moore, Silas Nelson,	339 Boston rd.,	Traveling Salesman, 116 Broadway.
Moran, Patrick J.,	20 Essex st.,	Street Cleaner, for the City.
Morgan, Paul,	49 Rutledge ave.,	Carpenter, Unemployed.
Moriarty, Ambrose,	74 Charles st.,	Clerk, N. Y., N. H. & H. R. R., Water st.
Moriarty, Daniel,	54 Murray Hill ave.,	Foreman, B. & A. Yards.
Moriarty, James Joseph,	124 Everett st.,	Horseshoer, 219 Dwight st.
Moriarty, Richard F.,	23 Tenth st.,	Stage Hand, 103 Bridge st.
Moriarty, Thomas, J., Jr.,	31 Webster st.,	Plumber, Unemployed.
Morin, Arthur A.,	3 Portsmouth st.,	Machinist, Unemployed.
Morris, Frederick S.,	18 Catharine st.,	Baker, 812 State st.
Morse, Charles F.,	40 Adams st.,	Janitor, Auditorium, Court st.
Morse, Frank R.,	31 Salem st.,	President, 376 Main st.
Morse, Frank W.,	w. s. Davenport st.,	Grain Handler, 184-190 Lyman st.
Morse, Valentine B.,	170 Essex st., I.O.,	Clerk, Pine st., I. O.
Moseley, E. George,	38 Dresden st.,	Accountant, American Writing Paper Co., Holyoke.
Mossman, William M.,	26 Besse pl.,	Freight Accountant, 500 Main st.
Motherway, James V.,	33 Plymouth st.,	Steam Fitter, Unemployed.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Moynihan, Jeremiah J.,	28 Cherryvale ave.,	President, 265-267 Summer st.
Moynihan, Patrick J.,	78 Alexander st.,	Shipping Clerk, 174 Lyman st.
Mulcahy, William E.,	16 Orange st.,	Traveling Salesman, 33 Lyman st.
Mulligan, George J.,	15 Cortland st.,	Plumber, 15 Cortland st.
Mulligan, Ralph F.,	43 Ridgewood ter.,	Artist, 43 Ridgewood ter.
Munley, John Joseph,	6 Andrew st.,	Lineman, 295 Worthington st.
Munn, Ralph L.,	294 St. James ave.,	Chief Clerk, City Collector's Office, Municipal Building.
Munroe, Donald M.,	192 Central st.,	Advertising Manager, 381 Main st.
Munsell, Samuel W.,	67 Fairfield st.,	General Manager, 145 State st.
Murphy, John H.,	70 Grosvenor st.,	Plumber, Unemployed.
Murphy, John Joseph,	520 Armory st.,	Tire Maker, Front st., C. Falls.
Murphy, Redmond,	133 Franklin st.,	Blacksmith, Unemployed.
Murphy, Timothy James,	178 Liberty st.,	Mason, 178 Liberty st.
Murphy, William W.,	158 Walnut st.,	Superintendent, 59 Fort st.
Murray, John R.,	74 Euclid ave.,	Cigar Packer, 14 School st., Westfield.
Murray, William J.,	72 Bay st.,	Grocer, 261 Chestnut st.
Nadle, Charles W.,	39 Andrew st.,	Auto Repairman, 832 State st.
Nagle, John J.,	151 Cedar st.,	Chauffeur, 392 Main st.
Needham, Lawton Brooks,	29 Arch st.,	Manager, 318 Main st.
Neff, Arthur D.,	25 Albermarle st.,	Advertising Manager, 349 Main st.
Neidel, Charles G.,	66 Alden st.,	Clerk, Municipal Building.
Newton, Cheney F.,	53 Chase ave.,	Construction Work, 495 Main st.
Newton, J. Howard,	180 Belmont ave.,	Traveling Salesman, Worcester st., I. O.
Neylon, John, Jr.,	112 Eastern ave.,	Plumber, 32 Dwight st.
Nichols, LaRoy,	95 Jefferson ave.,	Carpenter, 95 Jefferson ave.
Niles, Orville W.,	43 Calhoun st.,	Retired.
Nilson, Alex,	355 North Main st.,	Foreman, Bosch Magneto Co., No. Main st.
Nims, Herbert E.,	166 Princeton st.,	Chemist, Fiberloid Co., I. O.
Nix, Charles E.,	929 Sumner ave.,	Gas Fitter, 23 State st.
Noble, Frederick A.,	113 Westford ave.,	Superintendent, 354 Birnie ave.
Noble, Horace A.,	211 Main st.,	Division Freight Agent, B. & A. R. R. Co.
Nolan, Michael W.,	34 Cortland st.,	Chauffeur, 54 Fort st.
Norcross, Horace E.,	45 Wentworth st.,	Grinder, Stockbridge st.
Norton, Edward G.,	160 Hampshire st., I. O.,	Foreman, Worcester st., I. O.
Norton, Edward George,	8 Chapel st.,	Carriage Trimmer, 2 Park st.
Norton, William H.,	414 North Main st.,	Clerk, 392 Main st.
Nutter, Sagar Henry,	130 Hampshire st., I. O.,	Machinist, Pine st., I. O.
Nye, Alfred C.,	Round Hill,	Traveling Salesman, Stone Lumber Co., Boston.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Oakes, George L.,	44 Webster st.,	Clerk, 33 Lyman st.
Ober, Amos T.,	33 Douglas st.,	Foreman, 68 Birnie ave.
O'Brien, David,	106 Tenth st.,	Machinist, Bay State Elevator Co., Chicopee.
O'Brien, Francis R.,	280 Franklin st.,	Railroad Clerk, Charles st.
O'Brien, John J.,	26 Washburn st.,	Foreman, 439 Main st.
O'Brien, John J.,	22 Church st.,	Clerk, 451 Main st.
O'Brien, Joseph A.,	560 Liberty st,	Salesman, 83 Warwick ave.
O'Brien, Timothy J.,	26 Demond ave.,	Motorman, 5 North Main st.
O'Brien, William H.,	50 Belmont ave.,	Brick Layer, 264 Main st.
O'Connell, Daniel E.,	58 Locust st.,	Janitor, 11 Elm st.
O'Connell, Edward J.,	28 Leonard st.,	Clerk, 495 Main st.
O'Connell, John,	178 Liberty st.,	Clerk, 181 Birnie ave.
O'Connell, John P.,	427 Chestnut st.,	Molder, East Springfield.
O'Connell, Michael,	44 Hampden st., I. O.,	Loom Fixer, Indian Orchard Co., I. O.
O'Connor, Charles,	44 Seventh st.,	Meat Inspector, 140 Lyman st.
O'Connor, Edward W.,	39 Murray Hill ave.,	Barber, 142 Main st.
O'Connor, John,	901 Belmont ave.,	Salesman, 901 Belmont ave.
O'Connor, Raymond M.,	136 Hampden st., I. O.,	Bookkeeper, Unemployed.
O'Donnell, Bartholomew J.,	250 Franklin st.,	Machinist, Unemployed.
O'Grady, William T.,	40 Howard st.,	Salesman, 560 Main st.
Ogden, Frank B.,	n. s. Boston rd.,	Tool Maker, Willow st.
O'Hare, Patrick J.,	733 Carew st.,	Cloth Cutter, Unemployed.
O'Malley, Patrick J.,	18 Grover st.,	Polisher, 86 Broadway, C. Falls.
O'Neil, Charles H.,	657 Main st.,	Auto Painter, Bowdoin ter.
O'Neil, Denis E.,	339 Belmont ave.,	Real Estate Broker, 264 Main st.
O'Neill, Joseph,	37 Chase ave.,	Wire Business, Southport, Ct.
Onorato, Joseph,	235 Central st.,	Grocer, 72 Bridge st.
Oppenheimer, Berthold A.,	14 Cherryvale ave.,	Insurance Agent, 289 Main st.
O'Reilly, Carl P.,	40 High st.,	Engraver, 29 Worthington st.
Osgood, Erastus H.,	462 Belmont ave.,	Traveling Salesman, St. Louis, Mo.
Ost, William,	108 Benton st.,	Cooper, 1273 State st.
Ouellette, J. Arthur,	317 North Main st.,	Retired.
Owings, William R.,	103 Trafton rd.,	Sales Manager, Milford.
Packard, Wilbur H.,	85 Beaumont st.,	Foreman, 107 Pecousic ave.
Page, George A.,	34 Orange st.,	Manager, N. S. Wilson Co., Boston.
Pagliaro, Salvatore,	39 Manhattan st.,	Jitney Driver,39 Manhattan st.
Paige, Charles S.,	17 Demond ave.,	Foreman, Wason ave.
Paige, Ralph H.,	s. s. Buena Vista plaza,	Secretary, 383 Main st.
Paine, George A.,	24 Carlisle st.,	Butcher, 457 State st.
Palmer, Charles A.,	27 Home st.,	Foreman, 902 Main st.
Paquette, Henry,	597A Main st.,	Laborer, Unemployed.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Parish, Consider W.,	18 Rowland st.,	Traveling Salesman, Cor. Worthington & Chestnut sts.
Parker, Charles A. H.,	40 High st.,	Clerk, 60 Emery st.
Parker, Howard G.,	24 Terrence st.,	Tool Maker, 53 Wilbraham rd.
Parks, Charles W.,	48 Ina st.,	Repairman, 837 State st.
Parks, John,	19 Autumn st.,	Ornamenter, Warwick ave.
Parsons, Frederick D.,	269 Union st.,	Insurance Agent, 414 Main st.
Parsons, William R.,	122 Amherst st.,	Manager, 336 Bridge st.
Pastore, Domenico,	25 Norwood st.,	Tailor, 374 Main st.
Patelle, Wilfred,	15 Richelieu ct.,	Clerk, 15 Market st.
Patience, William M.,	42 Maple st.,	Elevator Man, 29 Worthington st.
Patruno, Stefano,	544 Union st.,	Carpenter, 8 Elm st.
Patterson, Leslie M.,	253 Dickinson st.,	Salesman, 253 Dickinson st.
Paul, Samuel,	27 Silver st.,	Foreman, Broad st. cor Hanover st.
Paul, William E.,	310 Central st.,	Cigar Maker, 451 Main st.
Pease, George A.,	39 Berkeley st.,	Clerk, 374 Main st.
Pelkey, George Albert,	363 North Main st.,	Retired.
Pelletier, Edward E.,	61 High st.,	Manager, 327 Main st.
Perkins, Edwin F.,	180 Dunmoreland st.,	Clerk, 140 State st.
Perkins, John M.,	77 Fairfield st.,	Manager, Foot Church st., West Springfield.
Pero, J. Herbert,	78 Berkshire st., I. O.,	Clerk, Page blvd.
Perry, Bertrand J.,	33 Atwater rd.,	Insurance Man, 500 Main st.
Pessolano, Joseph P.,	25 Sachem st.,	Merchant, 333 Water st.
Peverley, Fred W.,	140 Chestnut st.,	Manager, 140 Chestnut st.
Phillips, Arthur E.,	85 Belmont ave.,	Compositor, 292 Main st.
Phillips, Charles P.,	648 Belmont ave.,	Dentist, 310 Main st.
Pierce, Arthur F.,	332 Bay st.,	Manufacturer, 332 Bay st.
Pierce, George,	14 Mattoon st.,	Horse Dealer, 794 Worthington st.
Pierce, George W.,	45 Wilmont st.,	Machinist, Page blvd.
Pierce, Raymond T.,	10 Harriet st.,	Laundry Man, r. 241 No. Main st.
Pierce, Willard,	112 Spring st.,	Clerk, 260 Main st.
Pike, George W.,	5 Madison ave.,	Broker, 387 Main st.
Pike, Lewis A.,	1663 North st.,	Foreman, 130 Birnie ave.
Pinney, Harry M.,	122 Chestnut st.,	Shipping Clerk, Front st., C. Falls.
Piper, William F.,	20 Gordon st.,	Truckman, 20 Gordon st.
Plant, Noah F.,	59 James st.,	Electrician, 73 State st.
Poirier, Frederic Patrick,	25 Lawe st.,	Carpenter, Unemployed.
Porter, Frank F.,	95 Euclid ave.,	Traveling Salesman, Charles H. Richardson & Co, Lynn.
Potter, Byron L.,	68 Court st.,	Assistant Manager, 256 Main st.
Potter, Clarence,	118 Colton st.,	Laborer, Page blvd.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Potter, Clifford B.,	269 Long Hill st.,	President, 906 Main st.
Pouliot, Harmine,	587 Union st.,	Merchant, 142 Walnut st.
Powers, J. Augustus,	47 Portland st.,	Shipping Clerk, opp. Center Depot, Chicopee.
Powers, Walter C.,	136 Long Hill st.,	Assistant Treasurer, Wason ave.
Pratt, Austin J.,	25 Catharine st.,	Plumber, 19 Wilbraham rd.
Pratt, Leonard C.,	17 Beaumont ter.,	Cost Clerk, Warner Bros. Co., Bridgeport, Ct.
Priest, John A.,	18 Dresden st.,	Advertising Manager, 837 State st.
Proctor, Charles B.,	257 Fort Pleasant ave.,	Mortgage Loan Broker, 476 Main st.
Profiglio, Fred J.,	26 Manhattan st.,	Landscape Gardener, 357 Maple st.
Pinney, Frederick W.,	724 Sumner ave.,	Clerk, 96 State st.
Poole, George W.,	103 Greene st.,	Porter, 12 Sanford st.
Prescott, Herbert E.,	93 Albemarle st.,	Shipping Clerk, 216 Worthington st.
Provost, Walter E.,	1255 Berkshire ave.,	Machinist, 837 State st.
Punderson, Samuel F.,	141 St. James ave.,	Treasurer, 138 State st.
Quilty, Jeremiah P.,	62 Temple st.,	Tailor, 289 Main st.
Quinlivan, Thomas F.,	31 Bartlett st.,	Inspector, Front st., C. Falls.
Quinn, Henry L.,	224 Berkshire ave.,	Ice Dealer, 224 Berkshire ave.
Quinn, Hubert J.,	34 Shillingford st.,	Ice Man, 195 Alden st.
Quinn, James J.,	22 Granville st.,	Grocer, Unemployed.
Quintal, Arthur,	13 Beaudry ave., I. O.,	Barber, 166 Main st., I. O.
Quirk, James J.,	223 Plainfield st.,	Foreman, Converse Coal Co., Armory st.
Rackliffe, Benjamin D.,	574 Dickinson st.,	Hardware Dealer, 493 Sumner ave.
Rainville, George,	32 Byers st.,	Proprietor, 32 Byers st.
Ramsay, James,	251 Mill st.,	Steam Fitter, Ludlow Mills, Ludlow.
Rano, Willie O.,	475 Main st.,	Shop Hand, Foot Church st., West Springfield.
Ransehousen, Lyman A.,	147 Belmont ave.,	Inventor, 147 Belmont ave.
Rapisarda, Alfred F.,	155 Monroe st.,	Baker, 155 Monroe st.,
Ratel, Edward,	61 Hampden st.,	Laborer, for the City.
Rathbun, Leonard W.,	48 Eton st.,	Salesman, 162 Chestnut st.
Ray, G. Avery,	42 Bay st.,	Renting Agent, 140th West 69th st., New York City, N. Y.
Ray, James,	57 Cortland st.,	Stableman, 54 Fort st.
Rayner, William T.,	47 Churchill st.,	Treasurer, Foot Church st., West Springfield.
Raynor, Howard,	67 Albemarle st.,	Bookkeeper, 127 Marlboro st.
Reach, Milton B.,	229 Rimmon ave.,	Manager, opp. Center Depot, Chicopee.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Reade, Thomas N.,	22 Greenwich st.,	Motorman, 5 North Main st.
Reed, Benjamin G.,	675 State st.,	Inspector, 837 State st.
Reed, John W.,	31 Maple st.,	Traveling Salesman, 31 Maple st.
Regnault, Louis J.,	132 King st.,	Baker, Napier st.
Reilley, Arthur S.,	76 Marion st.,	Cashier, 489 Main st.
Reilly, John A.,	60 Byers st.,	Bookkeeper, Unemployed.
Reinbold, William E.,	106 Dawes st.,	Lithographer, 140 Wilbraham ave.
Reopell, Henry E.,	55 Walnut st.,	Auto Repairman, 687 State st.
Reynolds, Charles,	190 Bowdoin st.,	Carpenter, 190 Bowdoin st.
Riani, Louis,	76 Orange st.,	Merchant, 112 Main st.
Ricard, Alexander,	5 Crystal ave.,	Cabinet Maker, Wason ave.
Rice, Clarence A.,	15 Summit st.,	Commercial Photographer, 29 Worthington st.
Rice, Francis W.,	149 Oakland st.,	Inspector, Stockbridge st.
Rice, Walter F.,	53 Atwater ter.,	Treasurer, 307 Main st.
Rich, Frederick H.,	62 Massachusetts ave.,	Office Manager, Page blvd.
Richard, Harry J.,	11 Murray Hill ave.,	Drug Clerk, 194 Main st.
Richardson, Arthur E.,	49 North Main st.,	Foreman, 349 Main st.
Richmond, Edward A.,	89 Walnut st.,	Druggist, 54 Walnut st.
Riga, Joseph G.,	28 Leyfred ter.,	Importer, 28 Leyfred ter.
Riordan, John Joseph,	143 Hampden st., I. O.,	Store Keeper, 39 Oak st., I. O.
Ripley, Harry S.,	966 Sumner ave.,	Chief Clerk, Worcester st., I. O.
Robbins, Stuart E.,	44 Cortland st.,	Builder and Machinist, 44 Cortland st.
Roberts, Arthur C.,	57 Biltmore st.,	Teller, 464 Main st.
Roberts, Carl W.,	100 Hancock st.,	Elevator Operator, 21 Cypress st.
Roberts, Edward John,	187 Quincy st.,	Truckman, 837 State st.
Roberts, John M.,	53 Parkside ave.,	Wire Weaver, 417 Liberty st.
Roberts, John W.,	33 Kenwood Park,	Cashier, 293 Bridge st.
Roberts, Reuben,	24 Bay st.,	Traveling Salesman, 139 State st.
Robinson, Lewis D., Jr.,	175 North Main st.,	Merchant, 182 Main st.
Robinson, Daniel E.,	25 North Main st.,	Stock Clerk, 187 Chestnut st.
Robinson, Robert G.,	17 Ashmont st.,	Superintendent, Humphrey ave., Chicopee.
Rodhouse, Walter F.,	574 Chestnut st.,	Manufacturer, 216 Worthington st.
Roger, Alphonse,	19 Central st.,	Barber, 144 State st.
Rohan, John P.,	934 Carew st.,	Foreman, Boston & Maine Yards.
Rohan, Michael E.,	127 Hampden st., I. O.,	Loom Fixer, Hogdes Fibre Carpet Co., I. O.
Rollins, Harvey E.,	14 Osgood st.,	Shipping Clerk, Unemployed.
Rooney, Michael J.,	n. s. Boston rd.,	Machinist, Pine st., I. O.
Rosever, John C.,	78 Catharine st.,	Motorman, Hooker St. Car Barn.
Rosever, Milo S.,	88 Dunmoreland st.,	Salesman, 121 State st.

NAME	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Ross, James C.,	4 Benton pl.,	Carpenter, 1273 State st.
Ross, Robert B.,	33 Beacon st.,	Stereotyper, 381 Main st.
Rowen, Michael J.,	15 Underwood st.,	Insurance Agent, 500 Main st.
Rowley, Arthur W.,	206 High st.,	Real Estate Dealer, 206 High st.
Roy, Joseph G.,	907 Armory st.,	Contractor and Builder, 907 Armory st.
Rudd, Walter A.,	s. s. Davenport st.,	Carpenter, 495 Main st.
Ruel, Arthur J.,	29 Longview ave.,	Agent, 500 Main st.
Ruggles, Carlos,	29 Sherman st.,	Lumber Dealer, 318 Main st.
Ruggles, Elmer E.,	69 Union st.,	Machinist, 837 State st.
Ruppel, John W.,	32 Jefferson ave.,	Store Keeper, 69 Main st.
Ruscoe, William H.,	261 North Main st.,	Janitor, 261 North Main st.
Russell, Charles P.,	92 Alden st.,	Machinist, 47 Taylor st.
Russell, Patrick W.,	33 Broad st.,	Grocer, 825 Main st.
Russell, Raymond B.,	44 Mansfield st.,	Salesman, Unemployed.
Russell, Thomas F.,	66 Essex st.,	Cabinet Maker, Retired.
Russell, William F.,	26 Plymouth st.,	Clerk, 10 Broadway.
Russell, William G.,	198 Central st.,	Mechanical Engineer, 9 Main st., Holyoke.
Ruther, Frederick,	122 Chestnut st.,	Photographer, 292 Main st.
Ryan, John F.,	43 Massachusetts ave.,	Foreman, 140 Wilbraham ave.
Rynn, Frank J.,	90 Amherst st.,	Night Chief, 283 Main st.
Sabourin, Henry,	52 Burr st.,	Carpenter, 127 Marlboro st.
Sackett, Fred E.,	844 Worthington st.,	Contractor, 850 Worthington st.
Samble, Charles,	76 Armory st.,	Wire Weaver, Warwick ave.
Sampson, Frederick H.,	61 Sargeant st.,	Salesman, 162½ Chestnut st.
Sanborn, Harry L.,	112 Spring st.,	Manager, 283 Worthington st.
Sanderson, Herbert A.,	55 Pratt st.,	Purchasing Agent, 98 Wason ave.
Sanderson, Howard S.,	107 Oakland st.,	Unemployed.
Santarsiero, Giuseppe,	147 Hancock st.,	Grocer, 145 Hancock st.
Sargeant, William H.,	169 Forest Park ave.,	Vice-President, 500 Main st.
Sault, Thomas J.,	91 Andrew st.,	Decorator, 91 Andrew st.
Sauter, William Anton,	35 Avon pl.,	Barber, 209 Main st.
Sayre, Russell C.,	27 Kenwood ter.,	Treasurer, 32 Vernon st.
Scagliarini, Americo,	132 Armory st.,	Printer, 53 Hillman st.
Scannell, Michael E.,	83 Armory st.,	Brick Mason, Unemployed.
Schenk, Richard C.,	118 Albemarle st.,	Chauffeur, Unemployed.
Schlatter, William J.,	449 Bay st.,	Florist, 422 Main st.
Schlegel, Jacob George,	41 Beech st.,	Baker, 123 Carew st.
Schneeloch, George E.,	896 Allen st.,	Shipping Clerk, 37 Harrison ave.
Schott, Charles R.,	32 Temple st.,	Grocer Clerk, Unemployed.
Schultz, August,	148 King st.,	Lithographer, 57 Taylor st.
Seabury, Harry M.,	55 Harvard st.,	Architect, 21 Besse pl.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Seagar, Albert L.,	93 Park st.,	Bookkeeper, Unemployed.
Searles, Fred W.,	84 Andrew st.,	Auto Repairman, 600 State st.
Seaver, Blake A.,	41 Greenwich st.,	Draftsman, 310 Main st.
Seaver, Frederic L.,	54 Chase ave.,	Assistant Superintendent, 17 Harrison ave.
Senecal, Eugene,	66 Pynchon st.,	Wood Worker, 2 Park st.
Sevigne, Elmer E.,	66 Albemarle st.,	Chauffeur, 92 Maple st.
Seymour, Gordon H.,	33 Avon pl.,	Manager, 40 Bliss st.
Shaftoe, James T.,	29 West Alvord st.,	Optician, 68 Main st.
Shahbazian, Sahag M.,	11 Oak st.,	Barber, 455 State st.
Shattuck, Arthur E.,	18 Spruceland ave.,	Purchasing Agent, Strathmore Paper Co., Mittineague.
Shattuck, Charles H.,	21 Beaumont st.,	Druggist, 503 Main st.
Shavit, Albert I.,	28 Myrtle st.,	Merchant, 259 Main st.
Shaw, Ernest S.,	307 Birnie ave.,	Machinist, Bosch Magneto Co., No. Main st.
Shaw, Frank E.,	34 Congress st.,	Baker, 282 Main st.
Shaw, Fred N.,	111 Union st.,	Chef, Broadway, Chicopee Falls.
Shea, Barry W.,	45 William st.,	Brick Layer, Unemployed.
Shea, Dennis B.,	39 Tenth st.,	Butcher, 375 Main st.
Shea, Dennis J.,	100 Central st.,	Unemployed.
Shea, Frank H.,	791 Main st.,	Printer, 29 Worthington st.
Shea, Jeremiah G.,	1308 North st.,	Brick Mason, 23 Murray Hill ave.
Shea, Joseph M.,	167 College st.,	Wholesale Clerk, 130 Lyman st.
Shea, Maurice Francis,	28 Benham st.,	Tire Maker, Front st., C. Falls.
Shea, Patrick F.,	62 Calhoun st.,	Theatrical Agent, 62 Calhoun st.
Shea, Stephen D.,	96 Hancock st.,	Electrician, 8 Besse pl.
Shea, Timothy,	79 Leete st.,	Manufacturer, 53 Union st.
Shea, William J.,	34 Windsor st.,	Bookkeeper, 153 Plainfield st.
Sheaffer, Albert Graham,	137 Marion st.,	Printer, 292 Main st.
Sheehan, Thomas E.,	41 Linden st.,	Acting Manager, 307 Main st.
Sheldon, Charles G.,	817 Sumner ave.,	Illustrator, 817 Sumner ave.
Sheldon, Clarence M.,	896 Allen st.,	Millwright, 41 Taylor st.
Sheldon, Raymond W.,	51 Trafton rd.,	Grocer, 49 Sumner ave.
Shepherd, William H.,	36 Sargeant st.,	Division Passenger Agent, B. & M. R. R. Co.
Sheppard, Arthur L.,	115 College st.,	Shipper, 837 State st.
Sherman, David,	318 Dwight st.,	Painter and Paperer, 274 Main st.
Sherman, George N.,	59 Cambridge st.,	Polisher, 156 Wason ave.
Shores, Manning N.,	2 Salem st.,	Receiving Clerk, 123 Carew st.
Sickler, John P.,	37 Demond ave.,	Foreman, Page blvd.
Simmons, Edgar S.,	306 Hancock st.,	Paper Cutter, U. S. Envelope Co.
Simonds, Thomas,	9 Central st.,	Laborer, for the City.
Skinner, Arthur O.,	8 Terrence st.,	Tester, Front st., Chicopee Falls.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Skinner, William A.,	102 Whittier st.,	Architect, 293 Bridge st.
Slattery, Maurice,	121 Greenwood st.,	Car Painter, B. & A. R. R. Co.
Slavin, William J. A.,	230 Eastern ave.,	Druggist, 228 Eastern ave.
Slocombe, Frank,	35 Portland st.,	Bookkeeper, 37 Harrison ave.
Smith, Alexander N.,	62 West Alvord st.,	Reporter, 310 Main st.
Smith, Amos C.,	132 Marion st.,	Chauffeur, Page blvd.
Smith, C. Fred,	198 White st.,	Salesman, Unemployed.
Smith, Herbert M.,	49 Osgood st.,	Stock Broker, 264 Main st.
Smith, Herbert W.,	336 Dickinson st.,	Manager, 336 Dickinson st.
Smith, Horace,	14 Huntington st.,	Cigar Maker, 258 Main st.
Smith, James H.,	276 Eastern ave.,	Mason, 264 Main st.
Smith, Michael,	22 West Alvord st.,	Manufacturer, 531 Worthington st.
Smith, William J.,	276 Eastern ave.,	Machinist, 837 State st.
Snell, John A.,	60 White st.,	Salesman, 359 Main st.
Snow, Arthur L.,	27 John st.,	Bookkeeper, 327 Main st.
Snowman, Edward A.,	42 Marengo Park,	Broker, 42 Marengo Park.
Sollace, George E.,	64 John st.,	Machinist, Front st., Chicopee Falls.
Southwick, Royal K.,	41 Reed st.,	Clerk, 260 Main st.
Sowden, George E.,	148 Catharine st.,	Clerk, 345 Bay st.
Spaight, Fred H. M.,	732½ Main st.,	Inspector, Page blvd.
Sparrow, Frederick E.,	50 Plainfield st.,	Shipping Clerk, Metals Production Equipment Co., Brightwood.
Spaulding, Walter L.,	67 Berkshire st., I. O.,	Clerk and Paymaster, Indian Orchard Co., I. O.
Spear, Edwin C.,	17 Bellevue ave.,	Treasurer and Manager, Heywood st.
Speight, Herbert S.,	74 White st.,	Farmer, Plumtree rd.
Spencer, Joseph R.,	92 Spring st.,	Traveling Salesman, Maxf Grinding Co., Chester.
Springer, Oscar F.,	225 Walnut st.,	Painter, 225 Walnut st.
Squire, Walter O.,	638 Belmont ave.,	Buyer, 390 Main st.
Squires, Charles E.,	83 Central st.,	Store Keeper, Summer St. Yards.
Stanford, John J.,	82 Albemarle st.,	Proprietor, 77½ Main st.
Stanton, Mark S.,	64 Jefferson ave.,	Superintendent, Walnut st. cor. Broadway, Chicopee Falls.
Starr, Frederick W.,	94 Somerset st.,	Assistant Manager, Front st., Chicopee Falls.
Stearns, Charles A.,	21 Blake Hill,	Insurance Clerk, 195 State st.
Stearns, Edwin F.,	31 Maple st.,	Insurance Broker, 317 Main st.
Stearns, Leslie B.,	90 Amherst st.,	Sporting Editor, 292 Main st.
Stebbins, Clayton S.,	41 Clarendon st.,	Chief Clerk, 295 Worthington st.
Steele, George P.,	64 White st.,	Painter, 64 White st.
Steinkuhler, George H.,	40 High st.,	Merchant, 219 Main st.
Stephens, James,	172 Bay Path,	Inspector, Page blvd.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Stephenson, John,	39 Acushnet ave.,	Machinist, Unemployed.
Stephenson, William S.,	86 Stockman st.,	Bookkeeper, 21 Cypress st.
Stetson, James J.,	69 Alexander st.,	Plumber, 19 Worthington st.
Stevens, Lennie E.,	26 Palmer ave.,	Grocer, 799 Main st.,
Stewart, David Charles,	27 Cherrelyn ave.,	Painter, 27 Cherrelyn ave.
St. Germain, Albert,	19 Belmont pl.,	Barber, 152 Garfield st.
Stiltz, Joseph A.,	46 Center st.,	Profiler, Stockbridge st.
Stocks, Frederick D.,	27 Plymouth st.,	Plumber, Cypress ct.
Stoddard, Edward C.,	778 Main st.,	General Repairer, 778 Main st.
Stoddard, Lafayette,	3 Salem st.,	Sign Painter, 675 South Main st.
Stone, Charles F.,	96 Bond st.,	Janitor, Winchester Square.
Stone, Edward J.,	138 Dartmouth ter.,	Service Manager, 53 Wilbraham rd.
Stratton, Cecil C.,	64 Carlisle st.,	Carpenter, 127 Marlboro st.
Streeter, Ralph L.,	41 Sumner ter.,	Painter, 41 Sumner ter.
Strout, Walter H.,	55 Sherman st.,	Merchant, 164 Bridge st.
Sturtevant, Frank F.,	420 Main st.,	Clothing Salesman, 348 Main st.
Suhm, Gustave F.,	32 Austin st.,	Foreman, 1095 State st.
Sullivan, Daniel,	136 Cambridge st.,	Tire Maker, Front st., C. Falls.
Sullivan, Daniel J.,	35 Donald st.,	Foreman, Fisk ave.
Sullivan, Frank G.,	45 Pearl st.,	Plumber, 240 Main st.
Sullivan, Jeremiah J.,	20 Leonard st.,	Foreman, 96 Summer st.
Sullivan, John F.,	30 Tenth st.,	Laborer, B. & A. R. R. Co.
Sullivan, John J.,	rear 236 State st.,	Chauffeur, 68 Elliot st.
Sullivan, John J.,	7 Greenwich st.,	Expressman, 62 Worthington st.
Sullivan, John M.,	57 Everett st.,	Treasurer, 220 Franklin st.
Sullivan, Michael,	41 Alden st.,	Plumber, 41 Alden st.
Sullivan, Michael W.,	764 Carew st.,	Motorman, 5 North Main st.
Sullivan, William D.,	41 Wentworth st.,	Traveling Salesman, 222 Chestnut st.
Sullivan, William S.,	28 Saratoga st.,	Salesman, American Sales Book Co., New York.
Summerlin, Harold R.,	57 Sunapee st.,	Traveling Salesman, 229 Worthington st.
Suriner, Clayton E.,	177 High st.,	Florist, 437 Bay st.
Swan, Lewis W.,	33 Grant st.,	Manager, 260 Main st.
Sweeney, Daniel C.,	50 Massachusetts ave.,	Salesman, 392 Main st.
Sweetser, William I.,	164 Belmont ave.,	Paper Ruler, 279 Dwight st.
Swords, Harry A.,	161 Hancock st.,	Repairman, 131 North Main st.
Syner, William T.,	67 Bristol st.,	Delivery Clerk, 362 Bridge st.
Tait, Frank D.,	37 Vinton st.,	Manager, 134 Cass st.
Tait, James C.,	29 Vinton st.,	Manager, 134 Cass st.
Tait, Harry J.,	29 Vinton st.,	Superintendent, 134 Cass st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Talbot, Frank E.,	78 Lyndale st.,	Discount Teller, 500 Main st.
Talmadge, Frank S.,	92 College st.,	Carpenter, 735 Worthington st.
Talmadge, Leslie K.,	rear 216 Pearl st.,	Office Manager, Superior pl.
Tate, William J.,	36 Massasoit st.,	Carpenter, School Dept., City.
Tate, William J., Jr.,	29 Massasoit st.,	Insurance Agent, 308 Main st.
Taylor, Albert C.,	708 Chestnut st.,	Office Manager, Spfd. Provision Co., Brightwood.
Taylor, Albert W.,	12 Sheldon st.,	Druggist, Unemployed.
Taylor, Alexander,	237 Walnut st.,	Painter, 65 Market st.
Taylor, Darrell C.,	179 College st.,	Filer, Page blvd.
Taylor, Fred B.,	28 Marengo Park,	Merchant, 19 East Court st.
Taylor, George,	39 Fisk ave.,	Clerk, 130 Birnie ave.
Taylor, Walter J.,	87 Massachusetts ave.,	Assistant Credit Manager, Front st., Chicopee Falls.
Taylor, William C.,	25 Federal st.,	Secretary, 168 Bridge st.
Teahan, John Denis,	125 King st.,	Milk Dealer, 125 King st.
Tehan, John F.,	33 Ashley st.,	Real Estate Dealer, 213 Bridge st.
Terrell, Charles B.,	667 St. James ave.,	Watchman, Page blvd.
Tessier, Eli J.,	178 Walnut st.,	Clerk, Page blvd.
Thacker, William R.,	21 Bellevue ave.,	Paper Dealer, 67 Taylor st.
Therien, William,	84 Bliss st.,	Polisher, Lozier st., Westfield.
Thibodeau, Bert P.,	254 Centre st., I. O.,	Carpenter, Unemployed.
Thomas, Daniel J.,	50 Dawes st.,	Construction Foreman, 283-295 Worthington st.
Thomas, Fred G.,	22 Dunmoreland st.,	Proprietor, 181 Dwight st.
Thomas, William H.,	23 Winthrop st.,	Stage Hand, 192 Worthington st.
Thompson, Charles G.,	805 White st.,	Retired.
Thornton, Charles Henry,	43 Acushnet ave.,	Painter, Unemployed.
Thornton, Michael J.,	361 North Main st.,	Assistant Superintendent, Spfd. Provision Co., Brightwood.
Thrasher, Homer D.,	17 Homer st.,	Waiter, Hillman st.
Thurston, George E.,	48 Abbe ave.,	Tool Maker, Unemployed.
Tifft, Lewis E.,	83 Ridgewood ter.,	Bond Broker, 387 Main st.
Tillinghast, William C.,	158 Walnut st.,	Merchant, 173 Hancock st.
Titus, William M.,	140 Chestnut st.,	President, 395 Dwight st.
Tolmage, Morris,	303 Belmont ave.,	Tailor, 303 Belmont ave.
Toomey, Edward M.,	21 Shillingford st.,	Machinist, 60 Main st., Westfield.
Toomey, James F.,	20 Cleveland st.,	Picture Maker, Warwick ave.
Toomey, John J.,	97 Pine st.,	Linotype Operator, 381 Main st.
Toomey, Michael S.,	119 Hancock st.,	Plumber, 242 Main st.
Topham, William H.,	75 Avon pl.,	Traveling Salesman, 75 Avon pl.
Toppin, Samuel H.,	394 St. James ave.,	Jitney Driver, for the City.
Tovet, Oliver C.,	15 Niagara st.,	Furniture Repairer, 23 Harrison ave.
Tower, Cullen B.,	103 Revere st.,	Manager, 472 Union st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Tower, George H.,	134 Cambridge st.,	Salesman, 824 State st.
Townsend, Henry C.,	53 Hall st.,	Salesman, 348 Main st.
Townsend, James Leslie,	326 Dickinson st.,	Traveling Salesman, 311 Summer st., Boston.
Trauschke, Henry H.,	27 Sargeant st.,	Laborer, Spfd. Water Dept.
Treadwell, Edward A.,	226 Tyler st.,	Laboratory Assistant, 145 Chestnut st.
Trenchet, Frank,	34 Wareham st.,	Contractor, 33 Sanford st.
Trudell, Bruno A.,	213 Centre, I. O.,	Manager, 144 Main st., I. O.
True, Harry P.,	33 Beechwood ave.,	Jeweler, 408 Main st.
Tuccolo, James,	94 Pearl st.,	News Dealer, 25 Fort st.
Tufts, Ernest D.,	15 Greenwich st.,	Proprietor, 23 Main st.
Tuohey, William H.,	93 Massachusetts ave.,	President, 332 Dwight st.
Tuttle, F. Herbert,	46 Main st.,	Piano Dealer, 58 Main st.
Tuttle, Fred H.,	20 Converse st.,	Bookkeeper, 837 State st.
Tyler, John K.,	24 Rupert st.,	Cashier, 53 Wilbraham rd.
Upham, Walter F.,	34 Orange st.,	Optometrist, 374 Main st.
Vacirca, Sebastiano,	100 Pendleton ave.,	Machinist, Page blvd.
Van Norman, Charles E.,	65 Dartmouth st.,	President, 160 Wilbraham ave.
Varley, James A.,	23 Chase ave.,	Assistant Store Keeper, 96 Summer st.
Vaughan, Ellwood B.,	834 Sumner ave.,	Contractor, 1082 Main st.
Vaughn, Daniel D.,	162 Hancock st.,	Laborer, Page blvd.
Veet, Fred A.,	787 Main st.,	Proofreader, 381 Main st.
Viets, Samuel D.,	147 Belmont ave.,	Insurance Agent, 293 Bridge st.
Vinick, Clyman,	343 Walnut st.,	Tailor, 204 Walnut st.
Vinton, George E.,	16 Kenwood ter.,	Manager, 208 Worthington st.
Votava, Frank E.,	11 Newman st.,	Cigar Maker, 3 Court House pl.
Waid, Addison,	100 Acushnet ave.,	Caretaker, 57 Sumner ave.
Waite, Leon R.,	167 High st.,	Unemployed.
Walden, George F.,	63 Beaumont st.,	Clerk, 326 Main st.
Walker, Archibald,	25 Lebanon st.,	Bookkeeper, 210 Alden st.
Walker, Charles O.,	80 Massachusetts ave.,	Public Accountant, 11 Elm st.
Walker, George A.,	63 Central st.,	Painter, 79 Central st.
Walker, Nathaniel A.,	79 Central st.,	Painter, 79 Central st.
Wallace, Norman,	372 Union st.,	Merchant, 392 Main st.
Walsh, Daniel M.,	92 Euclid ave.,	Mason, 223 Bridge st.
Walsh, John J.,	171 Abbe ave.,	Machinist, Bosch Magneto Co., No. Main st.
Walters, William L.,	24 High st.,	Hat Buyer, 289 Main st.
Ward, Carroll R.,	25 Elliot st.,	Clerk, 500 Main st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION
Ward, John Frank,	200 Eastern ave.,	Car Inspector, 278 North Main st.
Ward, John T.,	142 Marion st.,	Salesman, 13-15 Stockbridge st.
Ward, P. Erik,	214 Fort Pleasant ave.,	Special Agent, 141 Milk st., Boston.
Warmington, William E.,	111 Marlboro st.,	Optician, 27 Besse pl.
Warner, Earl H.,	76 West Alvord st.,	Salesman, 76 West Alvord st.
Warner, Ernest L.,	87 White st.,	Salesman, 27 Fort st.
Warner, Herbert B.,	111 Alden st.,	Clerk, Unemployed.
Warren, Watson W.,	75 Belmont ave.,	Traveling Salesman, Magee Furnace Co., Boston.
Washburn, Kirk N.,	53 Dartmouth st.,	Treasurer, 10 Broadway.
Watters, Harry J.,	38 Roseland st.,	Motorman, 5 North Main st.
Way, John P.,	62 Bliss st.,	Draftsman, 73 State st.
Weake, George,	172 Lebanon st.,	Contractor, 172 Lebanon st.
Webb, Fred E.,	33 Churchill st.,	Farmer, Allen st.
Webber, George E.,	23 Wigwam pl.,	Real Estate Dealer, 310 Main st.
Webster, Frank G.,	90 Walnut st.,	Foreman, 38 Cass st.
Webster, John A.,	75 Buckingham st.,	Clerk, 23 Elm st.
Welch, Henry E.,	93 Bristol st.,	Shipping Clerk, 538-540 Main st.
Welch, Thomas J.,	78 Charles st.,	Merchant, 420 Dwight st.
Welch, Thomas P.,	191 Main st.,	Hotel Keeper, 191-193 Main st.
Welch, William M.,	32 West Alvord st.,	Salesman, 32 West Alvord st.
Wellman, Frederick L.,	24 Coomes ave.,	Clerk, 392 Main st.
Wells, Charles E.,	28 Brown st.,	Treasurer, 2 Park st.
Wells, John T.,	44 Massachusetts ave.,	Stenographer, 500 Main st.
Wells, Oscar D.,	36 Austin st.,	Electrician, 36 Austin st.
Werder, Paul F.,	61 Pearl st.,	Candy Maker, 240 Worthington st.
Weschler, Frank J.,	17 Concord ter.,	Treasurer, 837 State st.
Wheeler, Norman F.,	49 Buckingham st.,	Druggist, 802 State st.,
Wheelock, Edward,	30 Windsor st.,	Chauffeur, 102 Maple st.
Whitbeck, Arthur A.,	126 Washington rd.,	Printer, 257 Main st.
White, Arthur E.,	59 King st.,	Electrician, 411 Main st.
White, Frank J.,	54 Auburn st.,	Motorman, 5 North Main st.
White, Joseph, Jr.,	28 Morris st.,	Buyer, 348 Main st.
White, Napoleon,	26 Besse pl.,	Barber, 15 Besse pl.
White, Samuel,	179 Massasoit st.,	Stock Clerk, Bosch Magneto Co., No. Main st.
White, William A.,	36 Clantoy st.,	Wire Weaver, 417 Liberty st.
Whitehouse, Lewis E.,	111 Massasoit st.,	Bookkeeper, 392 Main st.
Whiting, Herbert H.,	80 Cambridge st.,	Expressman, 21 East Court st.
Whitlock, Frank L.,	74 Jefferson ave.,	Assistant Treasurer, 294 Main st.
Whitney, Charles B.,	22 Churchill st.,	Manager, 88 Birnie ave.
Whitney, Mellen A.,	60 Fairfield st.,	Grocer, 325 Belmont ave.
Whittum, Norman E.,	23 Homer st.,	Printer, 367 Worthington st.
Whyte, Duncan M.,	32 Bradford st.,	Electrician, 334 Bridge st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION.
Wieprecht, Theodore, W.,	93 Girard ave.,	Crater, 837 State st.
Wilcox, Leroy H.,	21 College st.,	Real Estate Broker, 374 Main st.
Wilder, Charles C.,	137 Dartmouth st.,	Unemployed.
Willard, Arthur S.,	78 Whittier st.,	Insurance Clerk, 196 State st.
Willard, Walter H.,	1563 North st.,	Superintendent, 214 Birnie ave.
Willard, William S.,	58 Dresden st.,	Clerk, 195 State st.
Williams, Charles T.,	62 Bancroft st.,	Clerk, 30 Main st.
Williams, Fredrich O.,	563 Main st.,	Jeweler, 47 Hillman st.
Williams, William H.,	15 Saratoga st.,	Foreman, 902 Main st.
Williams, William H.,	68 Ranney st.,	Watchman, F. T. Ley's Storehouse, Island Pond rd.
Wilson, Arthur E.,	911 Sumner av.,	Starter, 5 North Main st.
Wilson, Henry J.,	86 Adams st.,	Baker, 138 Main st.
Wilson, William J.,	152 College st.,	Clerk, 500 Main st.
Wing, Leon M.,	241 College st.,	Sign Writer, 837 State st.
Winkel, Louis G.,	38 Arch st.,	Linotype Operator, 379 Main st.
Winslow, Carl L.,	46 Center st.,	Chauffeur, 435 Dwight st.
Winslow, Charles W.,	372 Sumner ave.,	Secretary, 47 Worthington st.
Winter, Arthur G.,	Champlain ave.,	Compositor, 53 Hillman st.
Winter, Edson P.,	57 High st.,	Manager, 21 Cypress st.
Winters, Lawrence,	288 Armory st.,	Salesman, 435 Dwight st.
Witherell, George K.,	120 Main st.,	Insurance Agent, 317 Main st.
Wolcott, Joseph N.,	15 Keith st.,	Brick Layer, 47 Grenada ter.
Wood, Charles A.,	20 Montmorenci st.,	Bookkeeper, 539 Main st.
Wood, Clifford L.,	33 Margaret st.,	Inspector, 73 State st.
Wood, Fred L.,	263 Bay st.,	Purchasing Agent, 21 Cypress st.
Wood, William R.,	76 Mill st.,	Clerk, 213 State st.
Woodbury, Francis Bailey,	101 Ashley st.,	Sexton, 299 State st.
Woodbury, Milo K.,	672 Chestnut st.,	Grocer, 144 Main st.
Woodstock, Roy M.,	77 Hall st.,	News Dealer, 192 State st.
Worrall, Harry C.,	35 Trafton rd.,	Sales Manager, Foot Church st., West Springfield.
Worth, Parker,	15 Pine st.,	Printer, 292 Main st.
Worthen, Ernest N.,	43 Firglade ave.,	Agency Director, 293 Bridge st.
Worthington, Albert E.,	708 Chestnut st.,	Clerk, 9 Main st., Holyoke.
Worthington, Chester R.,	4 Eagle st.,	Foreman, Spfd. Provision Co., Brightwood.
Wright, Henry S.,	92 Alden st.,	Manager, 317 Main st.
Wyckoff, Richard T.,	145 Harvard st.,	President, 19 Worthington st.
Wynne, John,	76 Melrose st.,	Laborer, for the City.
Wynne, William Joseph,	81 Prospect st.,	Steam Fitter, 146 State st.

NAME.	RESIDENCE.	PLACE OF BUSINESS OR OCCUPATION
Yahnig, Herbert Henry,	59 Tyler st.,	Shipping Clerk, 417 Liberty st.
Yarlott, Albert E.,	6 Springfield st.,	Manager, Union Station.
Yelinek, Louis J.,	72 Patton st.,	Cigar Maker, 32 Hampden st.
Young, Arnold Arthur,	60 Marshall st.,	Janitor, 287 Hickory st.
Young, Lloyd E.,	259 Central st.,	Clerk, 350 Main st.
Young, William,	20 Terrence st.,	Liquor Dealer, 145 Main st.
Young, Wilmot O.,	36 Maple st,.	Clerk, 500 Main st.
Yunker, Arthur H.,	862 Belmont ave.,	Circulation Manager, 381 Main st.
Yvon, Alfred T.,	121 College st.,	Auto Repairman, 36 Oak Grove ave.
Zaccaria, Alfonso,	501 Worthington st.,	Barber, 264 Main st.
Zeo, Nicola,	78 Prospect st.,	Fruit Dealer, 179 Lyman st.
Zieris, Charles,	97 Clantoy st.,	Wire Weaver, 417 Liberty st.
Zimmerman, Morris Aubrum,	782 Sumner av.,	Real Estate Dealer, 274 Main st.
Zimmerman, William E.,	19 Glendell ter.,	Contractor, 241 North Main st.
Zur Welle, Julius,	58 Dunmoreland st.,	Machinist, 612 North Main st.
Zwenger, Emil,	8 Stebbins st.,	Laborer, 837 State st.

CITY OF SPRINGFIELD, June 9, 1919.

The foregoing is a list of jurors prepared for the City of Springfield under the provisions of law applicable thereto.

JOHN W. NOLAN,
WARREN P. UNDERWOOD,
STEPHEN F. BIBLE,
ELIJAH A. NEWELL,
Registrars of Voters.

CITY AUDITOR.

THE CITY OF
SPRINGFIELD, MASSACHUSETTS.
AUDITING DEPARTMENT.

December 29, 1919.

To His Honor, the Mayor, and the City Council:—

During the fiscal year ended on November 30, 1919, this department has audited all bills and pay rolls presented for payment. It has also, as required by ordinance, made the quarterly examinations of the accounts of the City Treasurer and of the Water Department, and the semi-annual examinations of the accounts of the City Clerk and of the City Collector, all of which have been found correct.

The accounts of the Treasurer for the Commissioners of the Sinking Funds have been examined by this department and found correct.

The regular financial statements, schedules, etc., are being prepared and will be presented later.

Respectfully submitted,

WM. G. McINTYRE,
City Auditor.

CONSOLIDATED BALANCE SHEET.

(After Closing.)

CITY OF SPRINGFIELD, MASS.

November 30, 1919.

	Totals	FUNDS				
		General	Water	Capital	Sinking	Special and Trust
ASSETS:						
Cash in Banks and Office of City Treasurer,	$985,869.62	$48,741.62	$166,383.06	$673,689.60	$88,733.93	$8,321.41
Revenues and Accounts Receivable (Schedule A),	1,726,648.05	1,653,378.66	72,812.14			457.25
Property (Schedule B),	20,566,681.39		5,758,921.95	14,807,759.44		
Stores (Schedule C),	138,624.53	34,921.22	103,703.31			
Investments,	1,087,000.00				1,077,000.00	10,000.00
Total Assets,	$24,504,823.59	$1,737,041.50	$6,101,820.46	$15,481,449.04	$1,165,733.93	$18,778.66
LIABILITIES:						
Warrants Payable,	$308,578.39	$204,430.26	$30,717.75	$73,430.38		
Bonded Indebtedness (Schedule D):						
City Bonds—Within Limit,	$4,735,500.00			$4,735,500.00		
City Bonds—Outside Limit,	3,300,000.00			3,300,000.00		
Public Utility Bonds,	1,940,000.00		$1,940,000.00			
Total Bonds Outstanding,	$9,975,500.00		$1,940,000.00	$8,035,500.00		
Less Sinking Fund Reserves,	1,165,733.93		206,998.59	958,735.34		
Net Bonded Indebtedness,	$8,809,766.07		$1,733,001.41	$7,076,764.66		

CONSOLIDATED BALANCE SHEET.—Continued.

	Totals	FUNDS				
		General	Water	Capital	Sinking	Special and Trust
Reserves:						
For Redemption of Bonds,	$1,165,733.93		$206,998.59	$958,735.34		
For Abatement of Taxes,	60,013.75	$60,013.75				
For Abatement of Accounts Receivable,	9,231.16	8,867.10	364.06			
For Depreciation of Property,	93,045.17		93,045.17			
For Deferred Work,	150,000.00		150,000.00			
For Extraordinary and Unforeseen Expenses,	61,461.89	61,461.89				
Total Reserves,	$1,539,485.90	$130,342.74	$450,407.82	$958,735.34		
Sinking Funds,	$1,165,733.93				$1,165,733.93	
Special Funds:						
Lombard Reservoir Lot Fund,	$691.00		$691.00			
Gurdon Bill Fund,	3,779.98					$3,779.98
Court Square Extension Fund,	12,332.15					12,332.15
Charles S. Marsh Fund,	348.91					348.91
William H. Smith Fund,	687.09					687.09
McKinley Monument Fund,	691.01					691.01
Smith-Hughes Fund,	939.52					939.52
Total Special Funds,	$19,469.66		$691.00			$18,778.66
Total Liabilities,	$11,843,038.95	$334,773.00	$2,214,817.98	$8,108,980.38	$1,165,733.93	$18,778.66
Excess of Assets:						
Surplus,	12,661,789.64	1,402,268.50	3,887,002.48	7,372,518.66		
	$24,504,828.59	$1,737,041.50	$6,101,820.46	$15,481,449.04	$1,165,733.93	$18,778.66

CONSOLIDATED FUND STATEMENT.
(After Closing.)

CITY OF SPRINGFIELD, MASS.
November 30, 1919.

	Totals	FUNDS				
		General	Water	Capital	Sinking	Special and Trust
RESOURCES:						
Unapplied Cash,	$677,291.23	*$155,688.64*	$135,665.31	$600,259.22	$88,733.93	$8,321.41
Available Resources,	1,726,648.05	1,653,378.66	72,812.11			457.25
Investments,	1,087,000.00				1,077,000.00	10,000.00
Total Fund Resources,	$3,490,939.28	$1,497,690.02	$208,477.45	$600,259.22	$1,165,733.93	$18,778.66
APPROPRIATIONS AND RESERVES:						
Unencumbered Balances of Appropriations (Schedule E),	$387,257.01	$88,037.74		$299,219.27		
Premium on Bonds,	14,891.56	14,891.56				
RESERVES:						
For Encumbrances of Appropriations (Schedule F),	$348,691.19	$51,987.30		$296,703.89		
For Dwight Street Betterments,	582,118.00	582,118.00				
For Abated Department Bills,	9,231.16	8,867.10	$364.06			
For Abatement of Taxes,	60,013.75	60,013.75				
For Lombard Reservoir Lot Fund,	691.00		691.00			
For Extraordinary and Unforeseen Expenses,	61,461.89	61,461.89				
For Re-Appropriation,	4,336.06			4,336.06		
For Redemption of Public Debt,	1,165,733.93				$1,165,733.93	
Total Reserves,	$2,232,276.98	$764,448.04	$1,055.06	$301,039.95	$1,165,733.93	
Total Appropriations and Reserves,	$2,634,425.55	$867,377.34	$1,055.06	$600,259.22	$1,165,733.93	
EXCESS:						
Surplus (Schedule G),	856,513.73	630,312.68	207,422.39			$18,778.66
	$3,490,939.28	$1,497,690.02	$208,477.45	$600,259.22	$1,165,733.93	$18,778.66

REVENUES AND ACCOUNTS RECEIVABLE.

(Schedule A.)

CITY COLLECTOR IN ACCOUNT WITH THE CITY OF SPRINGFIELD, MASS.

Account	DEBIT			CREDIT			DEBIT
	Uncollected Nov. 30, 1918	Committed during the year	Total	Payments to City Treasurer	Abatements, etc.	Total	Uncollected Nov. 30, 1919
GENERAL FUND.							
Miscellaneous Revenues:							
Care at Almshouse—Charities Department,	$1,585.09	$9,973.78	$11,558.87	$9,241.36	$322.78	$9,564.14	$1,994.73
Care at Hospitals—Health Department,	9,256.82	20,672.15	29,928.97	14,099.92	8,165.59	22,265.51	7,663.46
Charges for Services—Engineering,	.....	2.30	2.30	2.30	.....	2.30	.....
Charges for Services—Street Sprinkling, Street Railway,	2,530.40	3,096.00	5,626.40	2,530.40	.....	2,530.40	3,096.00
Fees:							
Assessors,	.....	6.70	6.70	6.70	.....	6.70	.....
City Collector,	.....	4,931.76	4,931.76	4,931.76	.....	4,931.76	.....
Lockup,	5.00	94.05	99.05	88.80	.....	88.80	10.25
Public Bathhouses,	.....	405.00	405.00	405.00	.....	405.00	.....
Public Sanitary,	.....	1,054.96	1,054.96	1,054.96	.....	1,054.96	.....
Interest:							
Bank Deposits—City Collector,	.....	1,426.67	1,426.67	1,426.67	.....	1,426.67	.....
Special Assessments,	.....	1,566.99	1,566.99	1,566.99	.....	1,566.99	.....
Taxes,	.....	30,077.50	30,077.50	30,077.50	.....	30,077.50	.....
Licenses:							
Agents—Class I,	.....	190.00	190.00	185.00	.....	185.00	5.00
Alcohol,	.....	53.00	53.00	43.00	.....	43.00	10.00
Auctioneer,	.....	68.00	68.00	68.00	.....	68.00	.....
Bowling Alleys,	.....	22.00	22.00	20.00	2.00	22.00	.....
Dance,	.....	464.00	464.00	464.00	.....	464.00	.....
Dead Animal Removal,	.....	1.00	1.00	1.00	.....	1.00	.....
Elevator,	.....	233.50	233.50	233.50	.....	233.50	.....
Exhibition,	.....	350.00	350.00	350.00	.....	350.00	.....
Express,	.....	467.50	467.50	452.50	12.50	465.00	2.50
Farmers,	.....	30.75	30.75	30.75	.....	30.75	.....
Fruit and Vegetable Peddlers,	.....	2,500.00	2,500.00	2,425.00	75.00	2,500.00	.....

REVENUES AND ACCOUNTS RECEIVABLE.—Continued.

(Schedule A.)

CITY COLLECTOR IN ACCOUNT WITH THE CITY OF SPRINGFIELD, MASS.

Account	DEBIT			CREDIT			DEBIT
	Uncollected Nov. 30, 1918	Committed during the year	Total	Payments to City Treasurer	Abatements, etc.	Total	Uncollected Nov. 30, 1919
GENERAL FUND.							
Intelligence Office,	.....	$22.00	$22.00	$22.00	.....	$22.00	.....
Junk and Second Hand Dealers,	.....	172.00	172.00	170.00	$2.00	172.00	.....
Manicure and Massage, etc.,	.....	19.00	19.00	19.00	.....	19.00	.....
Motor Vehicle,	.....	1,115.00	1,115.00	1,105.00	10.00	1,115.00	.....
Motor Vehicle Junk—Class 3,	.....	35.00	35.00	35.00	.....	35.00	.....
Motor Vehicle Operator,	.....	233.00	233.00	229.00	4.00	233.00	.....
Pawnbroker,	.....	200.00	200.00	200.00	.....	200.00	.....
Pool and Billiard,	$18.00	1,556.00	1,574.00	1,558.00	15.00	1,573.00	$1.00
Ragpickers,	.....	479.70	479.70	459.00	20.70	479.70	.....
Street Musicians,	.....	1.50	1.50	1.50	.....	1.50	.....
Sunday Theaters,	10.00	7,210.00	7,220.00	7,210.00	10.00	7,220.00	.....
Taxicab,	.....	188.00	188.00	185.00	2.00	187.00	1.00
Theaters,	.....	1,225.00	1,225.00	1,125.00	100.00	1,225.00	.....
Used Car Dealer—Class 2,	.....	190.00	190.00	175.00	5.00	180.00	10.00
Moving Picture Receipts—School Department,	.....	1,026.60	1,026.60	1,026.60	.....	1,026.60	.....
Permits:							
Sewer Entrances,	.....	20,616.41	20,616.41	20,526.41	70.00	20,596.41	20.00
Signs, etc.,	.....	251.00	251.00	234.00	7.00	241.00	10.00
Street Obstruction,	25.00	4,380.82	4,405.82	4,380.32	25.50	4,405.82	.....
Street Opening,	11.50	220.07	231.57	204.57	.50	205.07	26.50
Rents:							
Administration Building,	516.30	3,097.80	3,614.10	3,097.80	.....	3,097.80	516.30
Auditorium,	1,122.30	15,859.00	16,981.30	11,669.00	1,308.00	12,977.00	4,004.30
Dwight Street Widening,	674.19	.....	674.19	.....	.....	.....	674.19
Equipment—Park Department,	.....	24.75	24.75	24.75	.....	24.75	.....
Equipment—Streets and Engineering,	83.20	1,410.10	1,493.30	745.98	13.96	759.89	733.41
Land—Park Department,	.....	51.00	51.00	51.00	.....	51.00	.....
Miscellaneous,	823.24	2,190.76	3,014.00	2,668.24	20.00	2,688.24	325.76

REVENUES AND ACCOUNTS RECEIVABLE.—Continued.

(Schedule A.)

CITY COLLECTOR IN ACCOUNT WITH THE CITY OF SPRINGFIELD, MASS.

Account	DEBIT			CREDIT			DEBIT
	Uncollected Nov. 30, 1918	Committed during the year	Total	Payments to City Treasurer	Abatements, etc.	Total	Uncollected Nov. 30, 1919
GENERAL FUND.							
Organ,	$15.00	$90.00	$105.00	$90.00	$15.00	$105.00	.....
School Halls,	11.00	636.00	647.00	561.00	.....	561.00	$86.00
Schoolhouse Property,	63.60	1,960.00	2,023.60	1,912.00	.....	1,912.00	111.60
Tuition:							
Central High School,	.....	8,759.00	8,759.00	8,214.00	174.00	8,388.00	371.00
Evening High School,	.....	838.50	838.50	838.50	.....	838.50	.....
Evening School of Trades,	.....	2,438.75	2,438.75	2,438.75	.....	2,438.75	.....
Evening School—Vocational,	.....	604.50	604.50	604.50	.....	604.50	.....
Graded Schools—Day,	140.00	8,060.75	8,200.75	7,688.50	101.00	7,789.50	411.25
High School of Commerce,	.....	8,442.00	8,442.00	7,422.00	348.00	7,770.00	672.00
Technical High School,	.....	14,880.00	14,880.00	13,482.00	534.00	14,016.00	864.00
Vocational School,	.....	2,208.00	2,208.00	1,857.00	.....	1,857.00	351.00
Miscellaneous Sales:							
Army Food Purchase and Sale,	.....	18,724.15	18,724.15	18,724.15	.....	18,724.15	.....
Army Training School,	13.00	3,550.82	3,563.82	3,563.82	.....	3,563.82	.....
Building Department,	.....	2.58	2.58	2.58	.....	2.58	.....
Charities Department—Almshouse Products,	498.18	1,239.43	1,737.61	1,733.68	.....	1,733.68	3.93
Charities Department—Wood,	288.40	2,713.90	3,002.30	2,540.05	6.00	2,546.05	456.25
Fire Department,	.....	41.25	41.25	41.25	.....	41.25	.....
Garbage,	507.57	7,774.34	8,281.91	8,005.51	18.40	8,023.91	258.00
Influenza Hospital,	.....	1,386.70	1,386.70	1,386.70	.....	1,386.70	.....
Municipal Market Committee,	20.07	3,138.61	3,158.68	3,158.68	.....	3,158.68	.....
Police Department,	.....	1,648.70	1,648.70	1,641.70	.....	1,641.70	7.00
Police Department—Uniform Cloth,	33.98	2.63	36.61	36.61	.....	36.61	.....
Public Buildings—Municipal Group,	.....	37.05	37.05	37.05	.....	37.05	.....
Public Buildings—Sale of Buildings,	.....	1,560.00	1,560.00	1,560.00	.....	1,560.00	.....
Public Buildings—Schoolhouses,	.....	1,003.22	1,003.22	385.72	.....	385.72	617.50

REVENUES AND ACCOUNTS RECEIVABLE.—Continued.

(Schedule A.)

CITY COLLECTOR IN ACCOUNT WITH THE CITY OF SPRINGFIELD, MASS.

Account	DEBIT			CREDIT			DEBIT
	Uncollected Nov. 30, 1918	Committed during the year	Total	Payments to City Treasurer	Abatements, etc.	Total	Uncollected Nov 30, 1919
GENERAL FUND.							
Public Safety—Committee on,	$367.00	$266.90	$633.90	$633.90	.....	$633.90	.....
School Department,	5.56	895.90	901.46	860.47	$29.27	889.74	$11.72
School Department—Graded Schools Lunch,	.....	370.69	370.69	370.69	.....	370.69	.....
School Department—Vocational School,	.....	439.59	439.59	428.32	3.00	431.32	8.27
Sealer of Weights and Measures,	.....	22.46	22.46	22.46	.....	22.46	.....
Streets and Engineering, Department of,	1,702.34	7,462.94	9,165.28	8,162.39	402.31	8,564.70	600.58
Recovered Expenditures:							
Army Food Purchase and Sale,	.....	9.00	9.00	9.00	.....	9.00	.....
Army Training School,	.....	21,216.71	21,216.71	21,216.71	.....	21,216.71	.....
Charities, Department of,	4,405.45	26,003.95	30,409.40	27,828.91	225.25	28,054.16	2,355.24
Fire Department,	9.00	95.29	104.29	80.67	.....	80.67	23.62
Health, Department of,	37.90	41.00	78.90	55.90	.....	55.90	23.00
License Commission,	.....	334.00	334.00	334.00	.....	334.00	.....
Public Buildings—Schools,	3.74	66.88	70.62	56.19	.....	56.19	14.43
Public Safety, Committee on,	.....	112.73	112.73	112.73	.....	112.73	.....
Streets and Engineering, Department of:							
Administration,	.....	17.18	17.18	17.18	.....	17.18	.....
Bridges,	48.45	46,045.88	46,094.33	36,719.43	.....	36,719.43	9,374.90
Engineering,	.....	1.27	1.27	1.27	.....	1.27	.....
Highways,	1,164.16	34,009.45	35,173.61	20,495.55	2,580.28	23,075.83	12,097.78
Refuse Disposal,	751.42	.....	751.42	143.48	.....	143.48	607.94
Repair Shop,	69.89	42.06	111.95	99.06	.....	99.06	12.89
Sewers,	206.89	978.76	1,185.65	864.88	4.97	869.85	315.80
Sidewalks and Curbing,	321.98	1,424.30	1,746.28	1,280.38	71.21	1,351.59	394.69
Stables and Yards,	.....	15.52	15.52	12.54	2.98	15.52	.....
Street Cleaning,	.....	326.33	326.33	61.87	38.00	99.87	226.46
Street Oiling,	.....	1,279.01	1,279.01	1,279.01	.....	1,279.01	.....

REVENUES AND ACCOUNTS RECEIVABLE.—Continued.

(Schedule A.)

CITY COLLECTOR IN ACCOUNT WITH THE CITY OF SPRINGFIELD, MASS.

Account	DEBIT			CREDIT			DEBIT
	Uncollected Nov. 30, 1918	Committed during the year	Total	Payments to City Treasurer	Abatements, etc.	Total	Uncollected Nov. 30, 1919
General Fund.							
Special Assessments:							
Betterments—Dwight Street Widening,	.....	$582,118.00	$582,118.00	$49,444.31	.....	$49,444.31	$532,673.69
Betterments,	$8,545.26	25,292.22	33,837.48	16,026.59	$70.63	16,097.22	17,740.26
Interest—Apportioned Betterments,	.....	3,561.70	3,561.70	270.34	4.81	275.15	3,286.55
Sidewalks and Curbing,	10,952.93	32,879.44	43,832.37	25,183.10	386.38	25,569.48	18,262.89
Watering Streets—1919,	.....	39,068.53	39,068.53	30,131.27	136.90	30,268.17	8,800.36
Watering Streets—1918,	8,862.70	.....	8,862.70	8,324.62	30.50	8,355.12	507.58
Watering Streets—1917,	348.82	.....	348.82	348.82	.....	348.82	.....
Taxes—1916,	34.09	.....	34.09	21.36	12.73	34.09	.....
Taxes—1917,	43,741.85	.....	43,741.85	43,105.61	636.24	43,741.85	.....
Taxes—1918,	935,087.18	1,930.76	937,017.94	856,949.94	12,004.77	868,954.71	68,063.23
Taxes—1919,	.....	4,506,166.47	4,506,166.47	3,539,052.59	20,621.37	3,559,673.96	946,492.51
Taxes—Paid after Abatement,	.....	16.85	16.85	16.85	.....	16.85	.....
	$1,034,918.45	$5,563,714.77	$6,598,633.22	$4,904,775.37	$48,649.53	$4,953,424.90	$1,645,208.32
Water Fund.							
Water Department:							
Water Rates,	$55,789.35	$465,706.80	$521,496.15	$463,232.40	$1,469.77	$464,702.17	$56,793.98
Miscellaneous Sales,	10,117.79	57,895.85	68,013.64	49,547.70	2,447.78	51,995.48	16,018.16
	$65,907.14	$523,602.65	$589,509.79	$512,780.10	$3,917.55	$516,697.65	$72,812.14
Total—City Collector,	$1,100,825.59	$6,087,317.42	$7,188,143.01	$5,417,555.47	$52,567.08	$5,470,122.55	$1,718,020.46

REVENUES AND ACCOUNTS RECEIVABLE.—Concluded.

(Schedule A.)

CITY TREASURER IN ACCOUNT WITH THE CITY OF SPRINGFIELD, MASS.

Account	DEBIT			CREDIT			DEBIT
	Uncollected Nov. 30, 1918	Committed during the year	Total	Payments to City Treasurer	Abatements, etc.	Total	Uncollected Nov. 30, 1919
GENERAL FUND. Recovered Expenditures: Refunds—Department of Streets and Engineering,	.....	$8,170.34	$8,170.34	.....	.....	.....	$8,170.34
SPECIAL AND TRUST FUND. Miscellaneous Revenues: Interest—Sundry Trust Funds,	.....	$457.25	$457.25	.....	.....	.....	$457.25
Total—City Treasurer,	.....	$8,627.59	$8,627.59	.....	.....	.....	$8,627.59
Total—Revenues Receivable,							$1,726,648.05

PROPERTY.
(Schedule B.)
CAPITAL FUND.

ASSESSORS.			
Equipment.			
Office,.....			$1,683.38
BUILDING COMMISSIONER.			
Equipment.			
Office,.....		$713.18	
Automobiles,.....		813.75	
Miscellaneous,.....		20.00	
			1,546.93
CHARITIES, DEPARTMENT OF.			
Land.			
Almshouse Farm,.....		$75,000.00	
Building.			
Almshouse,.....	$27,960.89		
Wayfarers' Lodge,.....	25,848.57		
		53,809.46	
Equipment.			
Office,.....	$91.13		
Automobile,.....	1,098.57		
Furniture and Fixtures.			
Almshouse,.....$9,511.48			
Wayfarers' Lodge,..... 409.05			
	9,920.53		
Live Stock,.....	2,863.00		
Farm,.....	589.75		
		14,562.98	
			143,372.44*
CITY AUDITOR.			
Equipment.			
Office,.....			1,909.69
CITY CLERK.			
Equipment.			
Office,.....			1,120.35
CITY COLLECTOR.			
Equipment.			
Office,.....			2,876.59
CITY TREASURER.			
Equipment.			
Office,.....			876.00
FIRE DEPARTMENT.			
Land.			
Armory Street Station,.....	$2,000.00		
Chestnut Street Station,.....	22,500.00		
Margaret Street Station,.....	2,600.00		
Mill Street Station,.....	8,000.00		
Mill River Lane Station,.....	500.00		
North Street Station,.....	14,000.00		
North Main Street Station,.....	30,800.00		
Forward,.....	$80,400.00		$153,385.38

*Inventory Incomplete.

Forward,	$80,400.00		$153,385.38
Oak Street, I. O., Station,	2,000.00		
Oakland Street Station,	3,500.00		
Pine Street Station,	4,000.00		
Plainfield Street Station,	2,000.00		
Walnut Street Station,	7,100.00		
Winchester Park Station,	7,000.00		
		$106,000.00	
Buildings.			
Armory Street Station,	$16,000.00		
Boston Road Station,	200.00		
Chestnut Street Station,	14,500.00		
Court Street Fire Headquarters,	101,620.00		
Margaret Street Station,	22,500.00		
Mill Street Station,	26,928.84		
Mill River Lane Station,	2,000.00		
North and Patton Street Station,	58,000.00		
North Main Street Station,	20,000.00		
Oak Street, I. O., Station,	41,270.26		
Oakland Street Station,	12,140.11		
Pine Street Station,	35,000.00		
Plainfield Street Station,	10,500.00		
Walnut Street Station,	32,500.00		
Winchester Park Station,	50,000.00		
		443,159.21	
Equipment.			
Operating.			
Fire Alarm System,	$122,028.00		
Fire Fighting,	275,245.63		
Office,	261.86		
Furniture and Furnishings,	289.90		
Miscellaneous,	1,752.18		
		399,577.57	
			948,736.78
HEALTH DEPARTMENT.			
Land.			
State Street, north side,	$11,000.00		
West Street, south side,	30,000.00		
		$41,000.00	
Buildings.			
Hospital,		40,000.00	
Equipment.			
Office,	$423.79		
Furniture and Fixtures,	2,201.62		
Operating,	1,849.59		
		4,475.00	
			85,475.00
LAW DEPARTMENT.			
Equipment.			
Office,		$136.46	
Library,		2,237.96	
			2,374.42
Forward,			$1,189,971.58

Forward,.....			$1,189,971.58
MAYOR.			
Equipment.			
Office,.....		$87.08	
Automobile,.....		2,619.81	
			2,706.89
MILITIA RIFLE RANGE.			
Land.			
Robbins' Road Rifle Range,.....		$1,000.00	
Building.			
House,.....		3,000.00	
Equipment.			
Miscellaneous,.....		7.00	
			4,007.00
MISCELLANEOUS.			
Land.			
Police and Fire Headquarters and Municipal Heating Plant,.....		$189,400.00	
Land for Municipal Purposes,.....		12,767.96	
			202,167.96
MUNICIPAL GROUP.			
Land.			
Municipal Group, Court and Pynchon streets,..		$1,075,077.44	
Buildings.			
Municipal Group.			
Auditorium,.....	$390,500.00		
Tower,.....	142,200.00		
Court,.....	31,500.00		
Landscape Gardening,.....	9,600.00		
Administration Building,.....	551,927.94		
		1,125,727.94	
Equipment.			
Operating.			
Electrical Fixtures, Auditorium,.....	$27,000.00		
Furniture and Fixtures, Auditorium,.....	43,215.00		
Heating, Lighting, Plumbing, etc., Auditorium,.....	63,445.00		
Electrical Fixtures, Tower,.....	5,500.00		
Miscellaneous, Tower,.....	33,037.00		
Electrical Fixtures, Court,.....	16,400.00		
Miscellaneous, Court,.....	2,200.00		
Electrical Fixtures, Administration Building,	20,300.00		
Miscellaneous, Administration Building,....	80,997.53		
Furniture and Fixtures, Administration Building,.....	97,458.53		
		389,553.06	
			2,590,358.44
MUNICIPAL HEATING PLANT.			
Land, Power Station and Garage Building,.....		$46,670.00	
Building, Heating Plant,.....		31,000.00	
Equipment, Miscellaneous,.....		1,097.89	
			78,767.89
Forward,.....			$4,067,979.76

Forward,.....			$4,067,979.76
Police Department.			
Land.			
Police Station, Indian Orchard,.....		$300.00	
Buildings.			
Police Headquarters,.....	$115,600.00		
Police Station, Indian Orchard,.....	3,000.00		
		118,600.00	
Equipment.			
Signal System,.....	$15,000.00		
Automobiles,.....	14,383.40		
Furniture and Fixtures,.....	3,870.95		
Property Improvement,.....	692.32		
Miscellaneous,.....	7,705.05		
		41,651.72	
			160,551.72
Public Buildings, Department of.			
Equipment.			
Office,.....		$181.50	
Automobiles,.....		1,150.00	
Miscellaneous,.....		676.35	
			2,007.85
Public Parks, Department of.			
Land.			
Alvord Circle,.....	$1,000.00		
Armory Street Reservoir Park,.....	9,390.33		
Armory Street Triangle,.....	400.00		
Belmont Triangle,.....	600.00		
Belmont Avenue,.....	2,000.00		
Benton Lawn,.....	18,000.00		
Brickyard Property,.....	15,000.00		
Calhoun Square,.....	35,000.00		
Carew Triangle,.....	12,100.63		
Chapin Terrace,.....	3,000.00		
Clarendon Fountain,.....	864.22		
Concord Terrace,.....	1,000.00		
Cottage Hill Grove, I. O.,.....	12,000.00		
Court Square Extension,.....	1,400,400.00		
Crescent Terrace,.....	2,000.00		
Dartmouth Fountain,.....	1,127.71		
Dartmouth Terrace,.....	2,045.24		
Dorchester Rest,.....	1,054.68		
Emerson Wight Playground,.....	40,000.00		
Emily Bill Playground,.....	40,000.00		
Florentine Gardens,.....	2,000.00		
Forest Park,.....	1,435,500.00		
Garfield Triangle,.....	1,300.00		
Gerrish Park,.....	8,000.00		
Glendell Terrace,.....	1,500.00		
Grenada Terrace,.....	2,000.00		
Gunn Square,.....	5,000.00		
Gurdon Bill Estate,.....	30,516.22		
Forward,.....	$3,082,799.03		$4,230,539.33

Forward,	$3,082,799.03		$4,230,539.33
Kenwood Terrace,	2,000.00		
Kibbe Fountain,	1,200.00		
Lafayette Rest,	1,000.00		
Liberty Street Triangle,	3,000.00		
Magnolia Terrace,	5,000.00		
Maple Street Triangle,	500.00		
Maplewood Terrace,	5,000.00		
Marengo Park,	4,000.00		
Massachusetts Terrace,	1,500.00		
McKnight Glen,	5,000.00		
McKnight Triangle,	3,000.00		
Merrick Terrace,	100,000.00		
Mill Street Fountain,	800.00		
Mill River Rest,	1,000.00		
Morningside Park,	800.00		
Oak Grove Park,	1,000.00		
Sargeant's Rest,	15,000.00		
Smith's Triangle,	5,000.00		
Springfield Street Triangle,	1,000.00		
Stearns Square,	200,000.00		
Sumner Terrace,	7,000.00		
Tapley Playground,	7,000.00		
The Levee,	16,300.00		
Trinity Terrace,	2,500.00		
Thompson Triangle,	7,000.00		
Van Horn Reservoir Park,	31,177.45		
Watershops Triangle,	1,000.00		
Westford Circle,	2,000.00		
West Street Playground,	15,000.00		
West Street Triangle,	500.00		
Winchester Square,	25,000.00		
		$3,553,076.48	
Buildings.			
Emerson Wight Playground,	$950.00		
Emily Bill Playground,	1,200.00		
Forest Park.			
Greenhouses,	4,000.00		
Menagerie,	20,000.00		
Middle Pavilion,	4,500.00		
Pheasantry, etc.,	1,500.00		
Restaurant,	4,000.00		
Sheds,	3,500.00		
Shelters,	1,000.00		
Shops,	3,500.00		
Stables,	12,500.00		
Sumner Avenue Pavilion,	3,500.00		
Myrtle Street Playgrounds,	350.00		
Van Horn,	4,000.00		
West Street Playground,	250.00		
Bath House, Loon Pond,	300.00		
Bath House, Watershops Pond,	500.00		
		65,550.00	
Forward,		$3,618,626.48	$4,230,539.33

Forward,		$3,618,626.48	$4,230,539.33
Equipment.			
Automobiles,	$6,352.00		
Steam Roller,	3,074.12		
Forestry Division,	1,859.54		
Horses,	850.00		
Miscellaneous,	1,370.90		
		13,506.56	
			3,632,133.04
PUBLIC SAFETY, COMMITTEE ON.			
Furniture and Fixtures.			
Office,	$313.97		
Bread Shops,	1,425.09		
		$1,739.06	
Equipment.			
Miscellaneous,		2,042.07	
			3,781.13
PUBLIC SANITARY.			
Building,			24,000.00
REGISTRARS OF VOTERS, BOARD OF.			
Equipment.			
Office,		$80.00	
Furniture and Fixtures,		2,272.00	
			2,352.00
SCHOOL DEPARTMENT.			
Land.			
Acushnet Avenue,	$16,000.00		
Alden Street,	3,800.00		
Armory Street,	8,500.00		
Barrows,	18,700.00		
Berkshire Avenue,	3,981.78		
Boston Road,	1,500.00		
Brightwood,	16,040.38		
Buckingham,	45,000.00		
Carew Street,	18,000.00		
Carlisle,	3,000.00		
Central High,	172,800.00		
Central Street,	20,000.00		
Charles Street,	4,000.00		
Chestnut Street,	41,000.00		
Dry Bridge,	1,000.00		
Eastern Avenue,	5,400.00		
East Union Street,	5,000.00		
Emery Street Shop and Storehouse,	7,000.00		
Five Mile Pond,	500.00		
Forest Park,	30,000.00		
Glenwood,	2,500.00		
High School of Commerce,	174,200.00		
Homer Street,	24,100.00		
Hooker (Old),	148,600.00		
Hooker (New),	29,500.00		
Forward,	$800,122.16		$7,892,805.50

Forward,.....	$800,122.16		$7,892,805.50
Howard Street,.....	38,600.00		
Indian Orchard Grammar,.....	6,500.00		
Indian Orchard Primary,.....	3,000.00		
Jefferson Avenue,.....	7,500.00		
Kensington Avenue,.....	10,500.00		
Liberty,.....	8,891.34		
Lincoln,.....	24,000.00		
School Street,.....	35,500.00		
Sixteen Acres,.....	500.00		
State Street,.....	69,000.00		
Strickland,.....	5,000.00		
Sumner Avenue,.....	49,000.00		
Tapley,.....	22,000.00		
Technical High,.....	157,176.80		
Vernon Street Building,.....	42,900.00		
Vocational,.....	79,800.00		
Wachogue,.....	200.00		
Washington School,.....	18.46		
White Street,.....	14,000.00		
William Street,.....	14,000.00		
Worthington Street,.....	12,000.00		
		$1,400,208.76	
Buildings.			
Acushnet Avenue,.....	$47,277.78		
Alden Street,.....	14,556.76		
Armory Street,.....	146,411.72		
Barrows,.....	44,842.44		
Boston Road,.....	12,848.02		
Brightwood,.....	162,458.31		
Buckingham,.....	166,241.21		
Carew Street,.....	46,557.32		
Carlisle,.....	200.00		
Central High,.....	350,967.93		
Central Street,.....	77,264.68		
374 Central Street,.....	1,112.59		
Charles Street,.....	14,704.68		
Chestnut Street,.....	326,883.83		
Dry Bridge,.....	1,546.33		
Eastern Avenue,.....	30,461.42		
East Union Street,.....	24,961.62		
Emery Street Shop and Storehouse,.....	47,579.90		
Five Mile Pond,.....	3,324.02		
Forest Park,.....	277,363.94		
Glenwood,.....	16,548.45		
High School of Commerce,.....	736,892.24		
Homer Street,.....	104,085.95		
Hooker (Old),.....	62,495.09		
Hooker (New),.....	268,908.38		
Howard Street,.....	197,623.85		
Indian Orchard Grammar,.....	186,283.02		
Indian Orchard Primary,.....	12,791.92		
Jefferson Avenue,.....	41,629.28		
Forward,.....	$3,424,817.68	$1,400,208.76	$7,892,805.50

Forward,	$3,424,817.68	$1,400,208.76	$7,892,805.50
Kensington Avenue,	98,516.02		
Liberty,	77,415.08		
Lincoln,	91,321.21		
Portable Schoolhouses.			
Dry Bridge,	1,550.00		
Forest Park,	4,225.00		
Homer Street,	3,546.96		
Rushville,	3,482.34		
White Street,	1,525.00		
School Street,	20,321.23		
Sixteen Acres,	2,587.17		
State Street,	78,369.36		
Strickland,	21,040.09		
Sumner Avenue,	60,100.14		
Tapley,	70,773.54		
Technical High,	286,936.99		
Vernon Street,	3,155.53		
Vocational,	43,883.83		
Vocational (New),	13.48		
Wachogue,	800.00		
Washington School,	152,012.00		
White Street,	49,915.48		
William Street,	58,885.75		
Worthington Street,	67,353.06		
		4,622,546.94	
Equipment.			
Operating.			
Furniture and Fixtures,	$186,621.12		
Miscellaneous,	30,256.81		
		216,877.93	
			6,239,633.63
SOLDIERS' RELIEF COMMISSIONER.			
Equipment.			
Office,			50.98
STREETS AND ENGINEERING, DEPARTMENT OF.			
Land.			
Abbe Avenue Crossing,	$10,400.00		
67 Arch Street,	1,000.00		
Birnie Avenue Extension,	1,000.00		
Boston Road, Gravel Bank,	450.00		
Carew Street,	800.00		
Carew Street, between Baltimore and Fleetwood streets,	600.00		
Emery Street, Dunn Lot,	6,400.00		
Fulton Street,	44,200.00		
Dwight Street,	88,720.00		
Five Mile Pond, Gravel Bank,	4,500.00		
Island Pond, Gravel Bank,	300.00		
Locust Street,	2,370.00		
Logan Street Yard,	10,800.00		
Longhill Dump,	8,000.00		
Page Boulevard,	405.00		
Forward,	$179,945.00		$14,132,490.11

Forward,.....	$179,945.00		$14,182,490.11
Pecousic Avenue, east side,.....	19,000.00		
Pecousic Avenue, west side,.....	11,000.00		
Between Pecousic and South streets,.....	2,000.00		
Marble Street,.....	3,000.00		
Marshall Street,.....	650.00		
Ashes and Garbage Station, State Street,.....	28,800.00		
Summer Street Yard,.....	153,400.00		
Trap Rock Quarry, Westfield,.....	3,744.00		
Switzer Avenue,.....	200.00		
		$401,739.00	
Buildings.			
Cement Shed and Platform,.....	$300.00		
Emery Street Shop,.....	17,000.00		
Incinerator, Logan Street,.....	25,000.00		
Incinerator, West Street,.....	7,000.00		
South End Yard, east side Pecousic Avenue,..	4,600.00		
South End Yard, west side Pecousic Avenue,...	22,000.00		
State Street, Ashes and Garbage Station,.....	21,200.00		
State Street Storehouse,.....	2,600.00		
Summer Street Yard,.....	30,100.00		
Summer Street Yard, Trap Bins and Trestle,.	25,452.00		
		155,252.00	
Equipment.			
Asphalt Plant,.....	$11,989.37		
Automobiles,.....	4,676.97		
Blacksmith Shop,.....	1,070.00		
Carpenter Shop,.....	611.05		
Concrete Mixer,.....	4,181.24		
Engineering Division,.....	3,223.35		
Garage,.....	1,558.57		
Harness and Fittings,.....	1,679.98		
Highway and Road Machinery,.....	3,826.72		
Horses,.....	8,110.00		
Laboratory,.....	370.44		
Machine Shop,.....	653.05		
Merg Plant,.....	6,808.00		
Motorcycles,.....	475.00		
Motor Trucks,.....	19,775.96		
Office Furniture, etc.,.....	2,236.65		
Patterns,.....	278.00		
Sewer Division,.....	956.00		
Sleighs and Sleds,.....	1,559.19		
Small Tools,.....	9,519.43		
Stables and Yards,.....	5,034.40		
Steam Rollers,.....	13,254.02		
Steam Shovel,.....	1,221.09		
Steam Truck,.....	3,600.00		
Street Cleaning Division,.....	2,413.52		
Street Lighting,.....	918.00		
Wagons and Carts,.....	5,608.77		
Water Carts,.....	727.79		
		116,336.56	
			673,327.56
Forward,.....			$14,805,817.67

Forward,.....		$14,805,817.67
WEIGHTS AND MEASURES, SEALER OF.		
Equipment.		
Office,.....	$230.05	
Automobiles,.....	372.85	
Miscellaneous,.....	1,338.87	
		1,941.77
Total Capital Fund,.....		$14,807,759.44
WATER FUND.		
WATER DEPARTMENT.		
Ludlow Water System,.....	$975,584.84	
Little River Water System,.....	1,988,697.57	
Original Water System, Van Horn and Other,...	244,224.50	
Addition to Plant,.....	635,146.95	
Distribution System, Water Main, Real Estate,..	1,893,799.47	
Expenditures, Account Possible Supplies,.....	21,468.62	
		5,758,921.95
Total Property,.....		$20,566,681.39

PROPERTY ADDITIONS.

Year Ended November 30, 1919.

GENERAL FUND.

DEPARTMENT.		
Assessors:		
Office Equipment,		$856.30
Charities:		
Furniture and Fixtures,		275.50
City Auditor:		
Office Equipment,		501.35
City Clerk:		
Office Equipment,		145.35
City Collector:		
Office Equipment,		190.05
Fire:		
Property Improvement,	$10,428.84	
Miscellaneous Equipment,	11,832.83	
		22,261.67
Health:		
Office Equipment,	$254.80	
Furniture and Fixtures,	48.45	
Miscellaneous Equipment,	992.68	
		1,295.93
Law:		
Library Equipment,		138.56
Municipal Group Buildings:		
Property Improvement,	$2,737.31	
Furniture and Furnishings,	2,101.96	
		4,839.27
Municipal Heating Plant:		
Miscellaneous Equipment,		809.05
Forward,		$31,313.03

DEPARTMENT.		
Forward,		$31,313.03
Police Department:		
Automobiles,	$3,238.00	
Furniture and Fixtures,	237.25	
Miscellaneous Equipment,	200.05	
		3,675.30
Public Parks:		
Miscellaneous Equipment,		375.00
Public Buildings:		
Automobile,	$576.35	
Schoolhouses, Property Improvement,	8,059.69	
Schoolhouses, Furniture,	2,474.70	
Liberty School,	9,219.59	
Vocational School,	13.48	
		20,343.81
Schools:		
Furniture and Fixtures,	$6,223.56	
Miscellaneous Equipment,	2,100.10	
		8,323.66
Sealer of Weights and Measures:		
Miscellaneous Equipment,		534.42
Soldiers' Relief Commissioner:		
Office Equipment,		50.98
Streets and Engineering:		
Automobiles,	$5,895.69	
Engineering Division,	252.66	
Highway and Road Machinery,	412.20	
Horses,	325.00	
Motor Trucks,	7,100.00	
Office Furniture,	457.50	
Stables and Yards,	6,896.45	
Sewer Division,	832.11	
Street Cleaning Division,	811.80	
Miscellaneous Equipment,	297.44	
		23,280.85
Total Additions during Year,		$87,897.05

STORES.

Inventory as of November 30, 1919.
(Schedule C.)

GENERAL FUND:		
Public Buildings, Department of,	$2,843.60	
Streets and Engineering, Department of,	32,077.62	
		$34,921.22
WATER FUND:		
Water Department,		103,703.31
		$138,624.53

BONDED DEBT—SUMMARY.

(Schedule D.)

	November 30.		November 30, 1919.	
	1919.	1918.	Increase.	Decrease.
"City" Debt within statutory limit:				
Sinking Fund Bonds,	$1,235,000.00	$1,235,000.00		
Deduct Investments,	958,735.34	893,058.86	$65,676.48	
	$276,264.66	$341,941.14		$65,676.48
Serial Bonds,	3,500,500.00	3,055,500.00	445,000.00	
	$3,776,764.66	$3,397,441.14	379,323.52	
"City" Debt outside statutory limit:				
Serial Bonds,	3,300,000.00	2,707,000.00	593,000.00	
Net "City" Debt,	$7,076,764.66	$6,104,441.14	972,323.52	
"Water" Debt:				
Sinking Fund Bonds,	$275,000.00	$275,000.00		
Deduct Investments,	206,998.59	176,579.99	30,418.60	
	$68,001.41	$98,420.01		30,418.60
Serial Bonds,	1,665,000.00	1,754,000.00		89,000.00
Net "Water" Debt,	$1,733,001.41	$1,852,420.01		119,418.60
Total Net Debt,	$8,809,766.07	$7,956,861.15	852,904.92	

BONDED DEBT SERIALS.

WITHIN STATUTORY LIMIT	Issued	Coupon or Reg.	Rate	Original Issue	Paid	Outstanding	Payable
Sewer,	1901	Reg.	3½	$25,000	$18,000	$7,000	September
Sewer,	1904	Reg.	3½	40,000	30,000	10,000	August
Sewer,	1908	Reg.	4	50,000	27,500	22,500	October
Sewer,	1913	Reg.	4	50,000	12,000	38,000	November
Sewer,	1919	Reg.	4½	50,000		50,000	July
City Hall,	1907	Reg.	4	170,000	102,000	68,000	July
School, Kensington Avenue,	1908	Reg.	4	110,000	60,500	49,500	October
School, Lincoln,	1909	Reg.	4	100,000	50,000	50,000	October
School, Buckingham,	1913	Reg.	4¼	220,000	66,000	154,000	November
School,	1913	Reg.	4¼	39,500	12,000	27,500	November
School,	1916	Reg.	4	540,000	81,000	459,000	November
School,	1919	C. R.	4¼	627,000		627,000	November
High School of Commerce,	1913	Coup.	4	500,000	150,000	350,000	November
High School of Commerce,	1914	Coup.	4½	150,000	40,000	110,000	November
High School of Commerce,	1915	Coup.	4	350,000	72,000	278,000	November
Fire and Police Buildings,	1910	Reg.	4	340,000	153,000	187,000	October
Locust Street Extension,	1911	Reg.	4	20,000	16,000	4,000	October
Public Buildings,	1911	Reg.	4	320,000	128,000	192,000	October
Municipal,	1913	Reg.	4¼	55,500	35,500	20,000	November
Fulton Street Widening,	1914	Coup.	4½	400,000	100,000	300,000	November
School and Fire,	1914	Reg.	4½	250,000	65,000	185,000	November
Dwight-Willow and William Streets Extension,	1915	Reg.	4	70,000	28,000	42,000	November
Land and Buildings,	1917	C. R.	4½	300,000	30,000	270,000	November
				$4,777,000	$1,276,500	$3,500,500	
OUTSIDE STATUTORY LIMIT							
Municipal Buildings,	1909	C. R.	3½	$600,000	$150,000	$450,000	November
Municipal Buildings,	1910	C. R.	4	400,000	90,000	310,000	November
Municipal Buildings,	1912	C. R.	4	525,000	96,000	429,000	November
Municipal Buildings,	1914	C. R.	4	200,000	25,000	175,000	November
Dwight and Water Streets Railroad Underpasses,	1913	Coup.	4	400,000	84,000	316,000	November
Dwight and Water Streets Railroad Underpasses,	1915	Coup.	4	200,000	40,000	160,000	November
Dwight Street Widening and Extension,	1917	C. R.	4½	800,000	40,000	760,000	December
Dwight Street Widening and Extension,	1918	C. R.	4	200,000		200,000	December
Dwight Street Widening and Extension,	1918	C. R.	4½	500,000		500,000	December
				$3,825,000	$525,000	$3,300,000	
WATER DEBT							
Little River,	1907	C. R.	4	$270,000	$100,000	$170,000	January
Little River,	1908	C. R.	4	270,000	90,000	180,000	January
Little River,	1909	C. R.	3½	1,080,000	320,000	760,000	January
Little River,	1910	C. R.	3½	378,000	98,000	280,000	January
Little River,	1913	C. R.	4¼	250,000	60,000	190,000	November
Little River,	1916	C. R.	3½	100,000	15,000	85,000	November
				$2,348,000	$683,000	$1,665,000	
Total without Sinking Funds,				$10,950,000	$2,484,500	$8,465,500	

BONDED DEBT WITH SINKING FUNDS.

	Dated	Years	Rate	Coupon or Reg.	Due	Amount	Sinking Funds
School,	Dec., 1899	20	3½	Reg.	Dec., 1919	$20,000.00	
School,	June, 1900	20	3	C. R.	June, 1920	125,000.00	
School,	Sept., 1901	20	3½	Reg.	Sept., 1921	125,000.00	
School,	Oct., 1902	20	3½	Reg.	Oct., 1922	55,000.00	
School,	Sept., 1903	20	3½	C. R.	Sept., 1923	40,000.00	
School,	Jan., 1905	20	3½	Reg.	Jan., 1925	396,000.00	
School,	Nov., 1906	20	4	C. R.	Nov., 1926	207,000.00	
						$968,000.00	$764,975.06
Sewer,	June, 1900	30	3	C. R.	June, 1930	142,000.00	85,237.57
Public Parks,	June, 1903	20	3½	Reg.	June, 1923	125,000.00	108,522.71
						$1,235,000.00	$958,735.34
Water,	Oct., 1890	30	3½	Coup.	Oct., 1920	$125,000.00	
Water,	Oct., 1898	30	4	Coup.	Oct., 1923	150,000.00	
						$275,000.00	$206,038.59
Total with Sinking Funds,						$1,510,000.00	$1,164,773.93

SINKING FUNDS, NOVEMBER, 1919—1918.

Loan	Cash		Bonds, United States and Massachusetts		Bonds, City of Springfield		Bonds, Municipal	
	1919	1918	1919	1918	1919	1918	1919	1918
Schools,	$44,975.06	$3,771.95	$106,000.00	$106,000.00	$383,500.00	$366,500.00	$147,000.00	$148,250.00
Sewer,	4,937.57	433.97	8,000.00	8,000.00	32,000.00	32,000.00	16,000.00	16,000.00
Public Parks,	5,822.71	602.94	13,000.00	13,000.00	42,000.00	42,000.00	21,000.00	21,000.00
	$55,735.34	$4,808.86	$127,000.00	$127,000.00	$457,500.00	$440,500.00	$184,000.00	$185,250.00
Water,	32,998.59	2,579.99	38,000.00	13,000.00	76,000.00	76,000.00	34,000.00	59,000.00
	$88,733.93	$7,388.85	$165,000.00	$140,000.00	$533,500 00	$516,500.00	$218,000.00	$244,250.00

Loan	Bonds, Railroad		Bonds, Street Railway		Totals		Increase
	1919	1918	1919	1918	1919	1918	1919
Schools,	$81,000.00	$82,000.00	$2,500.00	$2,500.00	$764,975.06	$709,021.95	$55,953.11
Sewer,	19,000.00	19,000.00	5,300.00	5,300.00	85,237.57	80,733.97	4,503.60
Public Parks,	19,000.00	19,000.00	7,700.00	7,700.00	108,522.71	103,302.94	5,219.77
	$119,000.00	$120,000.00	$15,500.00	$15,500.00	$958,735.34	$893,058.86	$65,676.48
Water,	26,000.00	26,000.00			206,998.59	176,579.99	30,418.60
	$145,000.00	$146,000.00	$15,500.00	$15,500.00	$1,165,733.93	$1,069,638.85	$96,095.08

BONDED DEBT—MATURITIES.

	"City" Serial Within Limit.	"City" Serial Outside Limit.	"City" with Sinking Funds.	"Water" with Sinking Funds.	"Water" Serial.	Totals. With Sinking Funds.	Totals. Without Sinking Funds.
Nov. 30, 1918	$3,055.500:00	$2,707,000.00	$1,235,000.00	$275,000.00	$1,754,000.00	$1,510,000.00	$7,516,500.00
Issued 1918–19	677,000.00	700,000.00					1,377,000.00
	$3,732,500.00	$3,407,000.00	$1,235,000.00	$275,000.00	$1,754,000.00	$1,510,000.00	$8,893,500.00
Paid 1918–19	232,000.00	107,000.00			89,000.00		428,000.00
Nov. 30, 1919	$3,500,500.00	$3,300,000.00	$1,235,000.00	$275,000.00	$1,665,000.00	$1,510,000.00	$8,465,500.00
Due 1919		$75,000.00	$20,000.00			$20,000.00	$75,000.00
1920	$248,000.00	142,000.00	125,000.00	$125,000.00	$89,000.00	250,000.00	479,000.00
1921	247,000.00	142,000.00	125,000.00		89,000.00	125,000.00	478,000.00
1922	246,000.00	142,000.00	55,000.00		89,000.00	55,000.00	477,000.00
1923	245,000.00	142,000.00	165,000.00	150,000.00	89,000.00	315,000.00	476,000.00
1924	241,000.00	141,000.00			89,000.00		471,000.00
1925	236,000.00	141,000.00	396,000.00		89,000.00	396,000.00	466,000.00
1926	229,000.00	141,000.00	207,000.00		89,000.00	207,000.00	459,000.00
1927	227,000.00	141,000.00			89,000.00		457,000.00
1928	219,000.00	141,000.00			89,000.00		449,000.00
1929	211,000.00	141,000.00			89,000.00		441,000.00
1930	206,000.00	141,000.00	142,000.00		89,000.00	142,000.00	436,000.00
1931	189,000.00	141,000.00			89,000.00		419,000.00
1932	173,000.00	141,000.00			89,000.00		403,000.00
1933	172,500.00	141,000.00			89,000.00		402,500.00
1934	135,000.00	141,000.00			89,000.00		365,000.00
1935	96,000.00	141,000.00			89,000.00		326,000.00
1936	79,000.00	131,000.00			89,000.00		299,000.00
1937	52,000.00	131,000.00			74,000.00		257,000.00
1938	37,000.00	91,000.00			64,000.00		192,000.00
1939	2,000.00	56,000.00			14,000.00		72,000.00
1940	2,000.00	56,000.00					58,000.00
1941	2,000.00	56,000.00					58,000.00
1942	2,000.00	56,000.00					58,000.00
1943	2,000.00	56,000.00					58,000.00
1944	2,000.00	43,000.00					45,000.00
1945		43,000.00					43,000.00
1946		43,000.00					43,000.00
1947		43,000.00					43,000.00
1948		43,000.00					43,000.00
1949		43,000.00					43,000.00
1950		28,000.00					28,000.00
1951		18,000.00					18,000.00
1952		18,000.00					18,000.00
1953		5,000.00					5,000.00
1954		5,000.00					5,000.00
	$3,500,500.00	$3,300,000.00	$1,235,000.00	$275,000.00	$1,665,000.00	$1,510,000.00	$8,465,500.00

SCHEDULE OF APPROPRIATIONS AS OF NOVEMBER 30, 1919.

GENERAL FUND.
(Schedule E.)

Department	Original	As Modified to Date	Charges During Year	Reserved for Encumbrances	Unencumbered Balance
Administration of Trust Funds,	$425.00	$425.00	$425.00		
Assessors,	29,138.33	29,138.33	28,755.90	$363.30	$19.13
Building Commissioner,	22,229.95	22,979.95	22,815.89	145.00	19.06
Celebrations:					
Boston Parade,		1,000.00	182.26		817.74
Cardinal Mercier's Reception,		300.00	265.04		34.96
Christmas Eve,	500.00	500.00	500.00		
Citizens' Committee,	1,000.00	5,000.00	4,505.59		494.41
Independence Day,	2,000.00	8,700.00	8,636.18		63.82
Memorial Day,	950.00	1,025.00	1,025.00		
Roosevelt Day,		500.00	323.09		176.91
Charities, Department of:					
Administration,	13,788.33	13,788.33	13,661.84		126.49
Almshouse,	53,465.00	61,342.24	61,226.25	67.50	48.49
Wayfarers' Lodge,	5,179.00	5,179.00	4,854.51		324.49
Outside Relief,	52,600.00	62,709.16	62,709.16		
City Auditor,	13,500.33	13,500.33	13,360.44	139.00	.89
City Clerk,	13,148.33	14,048.33	13,639.25		409.08
City Collector,	24,280.33	24,380.33	23,881.61	43.50	455.22
City Council,	3,103.33	4,203.33	3,105.98		1,097.35
City Treasurer,	14,212.08	14,562.08	14,376.90	96.95	88.23
Damages—Land,	1,630.00	1,880.00	1,532.00		348.00
Damages—Persons and Property,	5,000.00	5,000.00	3,605.23		1,394.77
Fire Department:					
Administration,	17,407.84	17,907.84	17,684.15	52.84	170.85
Operation,	439,340.50	451,440.50	448,493.71	692.33	2,254.46
Fire Alarm System,	19,405.00	21,380.00	21,304.38		75.62
Fish Warden,	25.00	25.00	25.00		
Forest Warden,	100.00	100.00	100.00		
Health Department:					
Administration,	19,297.57	19,485.57	19,474.20		11.37
Dental Clinic,	1,986.67	3,782.67	3,562.72	174.15	45.80
Hospitals,	46,970.00	47,368.00	47,365.27		2.73
Laboratories and Milk Inspection,	7,685.00	7,734.00	7,657.52		76.48
Medical Inspection of School Children,	11,982.00	11,862.00	11,827.68		34.32
Tuberculosis Dispensary,	2,644.67	2,183.67	2,173.65		10.02
Law Department,	9,077.66	9,077.66	8,078.48		999.18
License Commissioners,	1,040.00	1,240.00	1,169.56		70.44

SCHEDULE OF APPROPRIATIONS AS OF NOVEMBER 30, 1919.

GENERAL FUND.—Continued.
(Schedule E.)

Department	Original	As Modified to Date	Charges During Year	Reserved for Encumbrances	Unencumbered Balance
Mayor,	$8,457.00	$8,457.00	$8,120.85		$336.15
Municipal Debt:					
Interest—City Debt,	286,353.75	308,853.75	308,853.75		
Interest—Temporary Loans,	39,000.00	62,115.10	62,115.10		
Interest—Trust Funds,	1,000.00	1,000.00	457.25		542.75
Serials—City Debt,	339,000.00	339,000.00	339,000.00		
Sinking Funds—City Debt,	33,700.00	33,700.00	33,700.00		
Municipal Market,	4,000.00	4,000.00	3,540.84		459.16
Police Department,	350,324.30	350,324.30	342,153.31	$80.00	8,090.99
Printing, Committee on,	3,450.00	4,750.00	4,327.09		422.91
Public Buildings, Department of:					
Administration,	7,470.00	7,620.00	7,464.10		155.90
Schools—Maintenance,	44,298.85	48,371.51	46,716.30	379.90	1,275.31
Schools—Operation,	204,864.44	206,864.44	191,674.81	10,555.20	4,634.43
Municipal Group Buildings,	48,741.94	54,722.28	54,132.26	375.00	215.02
Municipal Heating Plant,	20,377.72	20,611.72	20,440.53	84.00	87.19
Militia Rifle Range,	680.00	680.00	518.46		161.54
Public Library,	89,859.54	95,059.54	95,059.54		
Public Parks, Department of:					
Administration,	19,080.00	19,333.91	18,961.37		372.54
Operation,	141,187.16	142,833.25	142,723.25		110.00
Public Safety, Committee on,	3,800.00	4,114.85	4,112.30		2.55
Public Works, Board of	2,399.80	2,399.80	1,730.95		668.85
Refunds,	25,000.00	25,000.00	13,585.89		11,414.11
Registrars of Voters,	19,270.00	19,270.00	17,020.56		2,249.44
Reserve for Contingencies,	150,000.00	255,409.25	246,562.24		8,847.01
School Department:					
Administration,	29,209.67	30,859.67	30,647.10		212.57
Graded Schools and Junior High,	713,237.00	756,952.42	753,488.99	3,373.53	89.90
Central High School,	92,850.00	96,075.00	95,285.34		789.66
Technical High School,	91,725.00	92,611.00	91,904.51	373.30	333.19
High School of Commerce,	101,200.00	105,700.00	104,671.65	584.11	444.24
Vocational School,	21,970.00	22,645.00	19,127.86	388.81	3,128.33
Evening Schools—Elementary,	5,240.00	5,590.00	5,403.68		186.32
Evening High—Extension Work,	3,741.00	3,741.00	2,024.00		1,717.00
Evening Schools—High,	8,395.00	8,395.00	8,258.87	24.37	111.76
Evening School of Trades,	7,435.00	7,566.00	7,508.65	53.00	4.35
Evening School—Vocational,	2,606.00	2,606.00	1,964.79		641.21

SCHEDULE OF APPROPRIATIONS AS OF NOVEMBER 30, 1919.
GENERAL FUND.—Continued.
(Schedule E.)

Department	Original	As Modified to Date	Charges During Year	Reserved for Encumbrances	Unencumbered Balance
Kindergartens,	$47,905.00	$51,580.00	$50,205.84		$1,374.66
High Schools Lunch,	39,606.00	43,278.34	43,278.24		.10
Summer Schools,	10,390.00	10,390.00	9,269.59		1,120.41
Graded Schools Lunch,		1,000.00	896.71		103.29
Smoke Inspector,	355.00	355.00	321.47		33.53
Soldiers' and Sailors' Benefits,	20,825.00	21,229.17	19,068.62		2,160.55
Soldiers' and Sailors' Graves, Care of,	850.22	850.22	836.22		14.00
Streets and Engineering, Department of:					
Administration,	35,054.25	34,693.25	34,422.42	$162.50	108.33
Engineering,	29,724.71	26,094.71	25,723.12	4.80	366.79
Sewers,	63,969.74	86,235.84	85,396.10	110.00	729.74
Garbage Collection,	27,446.18	29,067.18	29,018.55		48.63
Ashes and Refuse Disposal,	112,594.98	118,454.98	118,404.61		50.37
Street Cleaning,	91,911.62	96,361.62	94,349.16		2,012.46
Highways,	250,006.34	273,809.17	271,292.21		2,516.96
Bridges,	12,637.81	56,515.09	56,277.93		237.16
Sidewalks and Curbing,	43,400.00	36,141.05	35,961.49		179.56
Street Sprinkling,	13,326.25	11,837.25	11,788.00		49.25
Street Oiling,	25,418.42	29,968.42	29,926.20		42.22
Street Lighting,	142,418.33	142,718.33	142,700.25	3.00	15.08
Repair Shops,	26,057.52	25,857.52	25,735.17		122.35
Stables and Yards,	124,601.82	143,601.82	142,360.09	264.40	977.33
Tax Exemptions, Soldiers' and Sailors',	1,200.00	1,200.00	1,152.47		47.53
Weights and Measures, Sealer of,	6,060.00	6,135.00	6,054.44		80.56
Wires, Inspector of,	2,090.00	2,090.00	1,309.92	8.25	771.83
Workmen's Compensation,	3,000.00	3,000.00	2,600.49		399.51
Special Accounts:					
Army Training School, No. 1,	2.14	2.14			2.14
Army Training School, No. 2,	15,704.65	987.23	791.41		195.82
Army Food Purchase and Sale,		18,733.15	17,970.96		762.19
Brightwood School Addition,		7,000.00	7,000.00		
Chestnut Street School Addition,		1,500.00	1,500.00		
Forest Park School,		6,500.00	6,500.00		
Fulton Street Widening,	30,806.93	33,936.47	33,936.47		
Homer Street School,		23,500.00	23,500.00		
Influenza Hospital, Special Committee on,		16,000.00	13,498.24		2,501.76
Lyman Street Widening,		22,592.50	22,592.50		
Military Relief Commission,	36,000.00	26,000.00	21,000.00		5,000.00

SCHEDULE OF APPROPRIATIONS AS OF NOVEMBER 30, 1919.

GENERAL FUND.—Continued.

(Schedule E.)

Department	Original	As Modified to Date	Charges During Year	Reserved for Encumbrances	Unencumbered Balance
Service Club Rooms,		$1,000.00	$878.39		$121.61
Van Horn Park,	$1,272.55	1,272.55	1,272.55		
Washington School,		9,862.14	9,862.14		
Water Street Widening,		7,415.41	7,415.41		
Credits Available for Re-appropriation:					
Celebrations,		31.75			31.75
Charities, Department of,		433.98			433.98
City Collector,		7.00			7.00
Committee on Public Safety,		1.65			1.65
Fire Department,		36.18			36.18
Municipal Market,		75.00			75.00
Public Parks,		371.53			371.53
Police Department,		59.89			59.89
Public Buildings, Department of,		4,830.51			4,830.51
Sealer of Weights and Measures,		6.00			6.00
Schools,		2,398.46			2,398.46
Streets and Engineering, Department of,		1,368.03			1,368.03
	$4,967,620.55	$5,469,365.64	$5,361,626.51	$18,598.74	$89,140.39
Special Accounts (Carried Forward):					
Fair Price Committee,		$650.00			$650.00
Gerrish Park,	$586.01	586.01			586.01
Liberty School,	20,027.73	13,913.17	$9,219.59		4,693.58
Mill Street Engine House Repairs,		20,000.00	10,428.84	$9,465.56	105.60
Porter Lake,		39,643.78	32,417.95	9,113.00	1,887.17*
Revision of Ordinances,	4,000.00	4,000.00	179.53		3,820.47
Soldiers' and Sailors' Memorial Commission,		1,000.00			1,000.00
Stores—Department of Public Buildings,	383.91	3,925.27	2,843.60		1,081.67
Stores—Department of Streets and Engineering,	41,692.17	101,695.70	32,077.62	10,472.50	59,145.58
Toll Bridge Repairs,	60,057.45	60,057.45	46,201.97		13,855.48
Vocational School Building,		5,000.00	13.48		4,986.52
	$126,747.27	$250,471.38	$133,382.58	$29,051.06	$88,037.74
Grand Total,	$5,094,367.82	$5,719,837.02	$5,495,009.09	$47,649.80	$177,178.13

*Overdraft

SCHEDULE OF APPROPRIATIONS AS OF NOVEMBER 30, 1919.

CAPITAL FUND.

(Schedule E.)

	As Modified to Date	Charges During Year	Reserved for Encumbrances	Unencumbered Balance
Brightwood School Addition,	$11,236.25	$9,540.38		$1,695.87
Chestnut Street School Addition,	153,500.00	55,391.61	$91,314.79	6,793.60
Dwight Street Underpass,	27,142.55			27,142.55
Dwight Street Widening,	788,583.23	636,298.05		152,285.18
Forest Park School Addition,	346,006.50	183,023.36	137,966.16	25,016.98
Fulton Street Widening,	55,907.54	55,907.54		
Homer Street School, Additions and Alterations,	159,500.00	78,153.80	65,922.94	15,423.26
Hooker School,	37,763.24	37,763.24		
Land for Schoolhouse Purposes, Berkshire Avenue,	3,881.78	3,881.78		
Municipal Group,	1,500.00		1,500.00	
Surface Sewer, 1919,	50,000.00	29,223.15		20,776.85
Technical High School, Additional Land,	41,389.08	22,521.41		18,867.67
Washington School,	24,718.84	24,718.84		
Water Street Underpass,	48,717.31	17,500.00		31,217.31
Water Street Widening,	7,415.41	7,415.41		
	$1,757,261.73	$1,161,338.57	$296,703.89	$299,219.27

APPROPRIATION CHARGES.

(Exclusive of Encumbrances.)

FOR THE

FISCAL YEAR ENDED NOVEMBER 30, 1919.

(Supporting Schedule E.)

GENERAL FUND.

Code.				
GF	ADMINISTRATION OF TRUST FUNDS:			
GF 00	Personal Services,.....		$400.00	
GF 20	Fixed Charges and Contributions,.....		25.00	
21	Rents,.....	$25.00		
				$425.00
GS	ASSESSORS:			
GS 00	Personal Services,.....		$23,304.16	
GS 10	Services Other Than Personal,.....		4,383.98	
11	Transportation of Persons,.....	59.36		
12	Transportation of Things,.....	4.65		
13	Subsistence and Support of Persons,..	77.17		
15	Communication Service,.....	518.85		
16	Printing, Engraving, and Binding,...	3,515.09		
17	Advertising and Publications,.....	13.91		
19	Miscellaneous Services,.....	194.95		
GS 20	Fixed Charges and Contributions,.....		25.00	
29	Miscellaneous Fixed Charges,.....	25.00		
GS 30	Supplies,.....		186.46	
31	Office Supplies,.....	182.71		
34	Cleaning and Toilet Supplies,.....	3.75		
GS 50	Equipment and Parts,.....		856.30	
54	Furniture and Furnishings,.....	856.30		
				28,755.90
PB	BUILDING COMMISSIONER:			
PB 00	Personal Services,.....		$20,689.30	
PB 10	Services Other Than Personal,.....		1,452.20	
11	Transportation of Persons,.....	305.66		
13	Subsistence and Support of Persons,..	23.10		
14	Care of Animals and Vehicles,.....	755.89		
15	Communication Service,.....	75.00		
16	Printing, Engraving, and Binding,...	241.85		
19	Miscellaneous Services,.....	50.70		
PB 20	Fixed Charges and Contributions,.....		40.00	
23	Taxes and Fees,.....	40.00		
PB 30	Supplies,.....		627.89	
31	Office Supplies,.....	72.07		
32	Fuel,.....	351.65		
33	Mechanics' Supplies,.....	202.11		
38	Medical Supplies,.....	2.06		
PB 50	Equipment and Parts,.....		6.50	
52	Construction and Conveying Equipment,.....	6.50		
				22,815.89
Forward,.....				$51,996.79

	Forward,			$51,996.79
Code.				
OS	CELEBRATIONS:			
OS 20	Fixed Charges and Contributions,		$15,437.16	
	Boston Parade,	$182.26		
	Cardinal Mercier's Reception,	265.04		
	Christmas Eve,	500.00		
	Citizens' Committee,	4,505.59		
	Independence Day,	8,636.18		
	Memorial Day,	1,025.00		
	Roosevelt Day,	323.09		
				15,437.16
CC	CHARITIES, DEPARTMENT OF:			
CCA	ADMINISTRATION.			
CCA 00	Personal Services,		$10,593.79	
CCA 10	Services Other Than Personal,		621.82	
11	Transportation of Persons,	44.22		
12	Transportation of Things,	.87		
13	Subsistence and Support of Persons,	7.85		
14	Care of Animals and Vehicles,	169.48		
15	Communication Service,	203.18		
16	Printing, Engraving, and Binding,	191.77		
19	Miscellaneous Services,	4.45		
CCA 20	Fixed Charges and Contributions,		2,017.00	
23	Taxes and Fees,	17.00		
29	Miscellaneous Fixed Charges,	2,000.00		
CCA 30	Supplies,		396.76	
31	Office Supplies,	47.44		
32	Fuel,	214.29		
33	Mechanics' Supplies,	105.59		
34	Cleaning and Toilet Supplies,	4.70		
38	Medical Supplies,	24.74		
CCA 50	Equipment and Parts,		32.47	
52	Construction and Conveying Equipment,	17.47		
54	Furniture and Furnishings,	15.00		
				13,661.84
CCH	ALMSHOUSE:			
CCH 00	Personal Services,		$18,775.39	
CCH 10	Services Other Than Personal,		3,953.32	
11	Transportation of Persons,	9.04		
12	Transportation of Things,	45.61		
14	Care of Animals and Vehicles,	554.13		
15	Communication Service,	48.17		
16	Printing, Engraving, and Binding,	19.39		
17	Advertising and Publications,	15.29		
18	Light, Heat and Power,	141.58		
19	Miscellaneous Services,	3,120.11		
CCH 20	Fixed Charges and Contributions,		5.00	
22	Insurance,	5.00		
CCH 30	Supplies,		36,293.00	
	Forward,		$59,026.71	$81,095.79

Code.					
	Forward,.....			$59,026.71	$81,095.79
	31	Office Supplies,.....	$44.00		
	32	Fuel,.....	11,691.45		
	33	Mechanics' Supplies,.....	460.57		
	34	Cleaning and Toilet Supplies,.....	1,372.30		
	35	Wearing Apparel—Sewing Supplies,..	2,997.05		
	36	Supplies for Animals,.....	2,957.92		
	37	Provisions for Persons,.....	18,578.62		
	38	Medical Supplies,.....	2,870.20		
	39	Miscellaneous Supplies,.....	320.89		
CCH	40	Materials,.....		526.51	
	42	Metals and Metal Products,.....	55.54		
	43	Non-Metallic Mineral Products,.....	72.26		
	44	Lumber and Wood Products,.....	162.52		
	45	Rope, Hemp, Twine,.....	18.90		
	46	Paints—Painters' Materials,.....	206.94		
	49	Miscellaneous Materials,.....	10.35		
CCH	50	Equipment and Parts,.....		1,673.03	
	51	Light, Heat, and Power Equipment,..	61.88		
	52	Construction and Conveying Equipment,.....	100.82		
	53	Live Stock,.....	387.00		
	54	Furniture and Furnishings,.....	1,123.33		
				———	61,226.25
CCW		WAYFARERS' LODGE:			
CCW	00	Personal Services,.....		$1,600.50	
	10	Services Other Than Personal,.....		234.76	
	12	Transportation of Things,.....	1.74		
	14	Care of Animals and Vehicles,.....	18.73		
	15	Communication Service,.....	42.80		
	16	Printing, Engraving, and Binding,...	6.36		
	17	Advertising and Publications,.....	.50		
	18	Light, Heat, and Power,.....	33.19		
	19	Miscellaneous Services,.....	131.44		
CCW	30	Supplies,.....		2,969.05	
	31	Office Supplies,.....	3.30		
	32	Fuel,.....	2,695.85		
	33	Mechanics' Supplies,.....	3.50		
	34	Cleaning and Toilet Supplies,.....	21.00		
	35	Wearing Apparel—Sewing Supplies,..	62.52		
	37	Provisions for Persons,.....	182.88		
CCW	40	Materials,.....		29.68	
	42	Metals and Metal Products,.....	2.75		
	45	Rope, Hemp, Twine,.....	1.25		
	46	Paints—Painters' Materials,.....	25.68		
CCW	50	Equipment and Parts,.....		20.52	
	52	Construction and Conveying Equipment,.....	20.52		
				———	4,854.51
CCR		OUTSIDE RELIEF:			
CCR	20	Fixed Charges and Contributions,.....		$62,709.16	
	25	Contributions to Persons and Institutions,.....	62,709.16	———	62,709.16
	Forward,.....				$209,885.71

Code.				
	Forward,.....			$209,885.71
	GA CITY AUDITOR:			
GA 00	Personal Services,.....		$12,284.27	
10	Services Other Than Personal,.....		388.77	
11	Transportation of Persons,.....	$20.40		
12	Transportation of Things,.....	7.73		
13	Subsistence and Support of Persons,..	61.30		
15	Communication Service,.....	45.77		
16	Printing, Engraving, and Binding,....	221.03		
17	Advertising and Publications,.....	2.00		
19	Miscellaneous Services,.....	30.54		
GA 30	Supplies,.....		202.05	
31	Office Supplies,.....	202.05		
GA 50	Equipment and Parts,.....		485.35	
54	Furniture and Furnishings,.....	485.35		
				13,360.44
	GK CITY CLERK:			
GK 00	Personal Services,.....		$10,283.05	
10	Services Other Than Personal,.....		2,772.02	
12	Transportation of Things,.....	.32		
15	Communication Service,.....	147.71		
16	Printing, Engraving, and Binding,....	369.81		
17	Advertising and Publications,.....	1.50		
19	Miscellaneous Services,.....	2,252.68		
GK 30	Supplies,.....		195.83	
31	Office Supplies,.....	128.83		
39	Miscellaneous Supplies,.....	67.00		
GK 50	Equipment and Parts,.....		388.35	
54	Furniture and Furnishings,.....	388.35		
				13,639.25
	GR CITY COLLECTOR:			
GR 00	Personal Services,.....		$17,889.49	
10	Services Other Than Personal,.....		5,144.43	
11	Transportation of Persons,.....	66.96		
12	Transportation of Things,.....	11.46		
13	Subsistence and Support of Persons,..	68.17		
15	Communication Service,.....	3,509.02		
16	Printing, Engraving, and Binding,....	557.41		
17	Advertising and Publications,.....	658.86		
19	Miscellaneous Services,.....	272.55		
GR 20	Fixed Charges and Contributions,.....		375.57	
21	Rents,.....	6.00		
22	Insurance,.....	369.57		
GR 30	Supplies,.....		282.07	
31	Office Supplies,.....	275.47		
34	Cleaning and Toilet Supplies,.....	.80		
38	Medical Supplies,.....	5.80		
GR 50	Equipment and Parts,.....		190.05	
54	Furniture and Furnishings,.....	190.05		
				23,881.61
	Forward,.....			$260,767.01

Code.					
	Forward,.....				$260,767.01
GC	CITY COUNCIL:				
GC 00	Personal Services,.....			$2,308.27	
GC 10	Services Other Than Personal,.....			737.14	
11	Transportation of Persons,.....		$52.25		
15	Communication Service,.....		116.98		
16	Printing, Engraving, and Binding,...		217.66		
17	Advertising and Publications,.....		349.10		
19	Miscellaneous Services,.....		1.15		
GC 20	Fixed Charges and Contributions,.....			53.74	
28	Taxes and Fees,.....		53.74		
GC 30	Supplies,.....			6.83	
31	Office Supplies,.....		6.83		
					3,105.98
GT	CITY TREASURER:				
GT 00	Personal Services,.....			$12,821.10	
GT 10	Services Other Than Personal,.....			992.67	
11	Transportation of Persons,.....		51.60		
12	Transportation of Things,.....		.32		
13	Subsistence and Support of Persons,..		20.75		
15	Communication Service,.....		284.56		
16	Printing, Engraving, and Binding,...		266.08		
19	Miscellaneous Service,.....		369.36		
GT 20	Fixed Charges and Contributions,.....			260.40	
22	Insurance,.....		260.00		
29	Miscellaneous Fixed Charges,.....		.40		
GT 30	Supplies,.....			205.98	
31	Office Supplies,.....		204.48		
38	Medical Supplies,.....		1.25		
39	Miscellaneous Supplies,.....		.30		
GT 50	Equipment and Parts,.....			96.75	
54	Furniture and Furnishings,.....		96.75		
					14,376.90
OH	DAMAGES—LAND:				
OH 60	Lands, Structures and Capital Outlay,..			$1,532.00	
67	Damages, Awards, and Property Charges,.....		1,532.00		
					1,532.00
OD	DAMAGES—PERSONS AND PROPERTY:				
OD 20	Fixed Charges and Contributions,.....			$3,605.23	
26	Damages to Persons and Property,...		3,605.23		
					3,605.23
PF	FIRE DEPARTMENT:				
PFA	ADMINISTRATION.				
PFA 00	Personal Services,.....			$17,258.63	
PFA 10	Services Other Than Personal,.....			244.28	
11	Transportation of Persons,.....		123.74		
13	Subsistence and Support of Persons,..		54.75		
15	Communication Service,.....		5.80		
16	Printing, Engraving, and Binding,...		36.49		
19	Miscellaneous Services,.....		23.50		
	Forward,.....			$17,502.91	$283,387.12

	Forward,.....		$17,502.91	$283,387.12
Code.				
PFA 30	Supplies,.....		178.24	
31	Office Supplies,.....	$178.24		
PFA 50	Equipment and Parts,.....		3.00	
54	Furniture and Furnishings,.....	3.00		
				17,684.15
PFO	Operation.			
PFO 00	Personal Services,.....		$405,591.33	
PFO 10	Services Other Than Personal,.....		10,236.21	
11	Transportation of Persons,.....	8.00		
12	Transportation of Things,.....	68.06		
13	Subsistence and Support of Persons,..	3.00		
14	Care of Animals and Vehicles,.....	2,142.70		
15	Communication Service,.....	832.77		
18	Light, Heat, and Power,.....	3,198.27		
19	Miscellaneous Services,.....	3,983.41		
PFO 20	Fixed Charges and Contributions,.....		3,940.38	
24	Pensions,.....	3,940.38		
PFO 30	Supplies,.....		19,617.66	
32	Fuel,.....	11,610.50		
33	Mechanics' Supplies,.....	4,587.51		
34	Cleaning and Toilet Supplies,.....	1,234.26		
35	Wearing Apparel—Sewing Supplies,..	1,712.20		
37	Provisions for Persons,.....	104.63		
38	Medical Supplies,.....	281.97		
39	Miscellaneous Supplies,.....	86.59		
PFO 40	Materials,.....		1,352.98	
41	Raw Materials,.....	7.26		
42	Metals and Metal Products,.....	335.16		
43	Non-Metallic Mineral Products,.....	26.80		
44	Lumber and Wood Products,.....	212.38		
45	Rope, Hemp, Twine,.....	75.66		
46	Paints—Painters' Materials,.....	599.47		
49	Miscellaneous Materials,.....	96.25		
PFO 50	Equipment and Parts,.....		7,755.15	
51	Light, Heat, and Power Equipment,..	169.75		
52	Construction and Conveying Equipment,.....	1,678.06		
54	Furniture and Furnishings,.....	570.23		
55	Property—Life Preserving Equipment,.....	5,337.11		
				448,493.71
PFF	Fire Alarm System:			
PFF 00	Personal Services,.....		$14,329.69	
PFF 10	Services Other Than Personal,.....		4,662.66	
11	Transportation of Persons,.....	16.25		
12	Transportation of Things,.....	16.18		
13	Subsistence and Support of Persons,..	4.54		
14	Care of Animals and Vehicles,.....	139.72		
15	Communication Service,.....	92.25		
18	Light, Heat, and Power,.....	133.84		
19	Miscellaneous Services,.....	4,259.88		
PFF 20	Fixed Charges and Contributions,.....		1,149.98	
	Forward,.....		$20,142.33	$749,564.98

	Forward,.....		$20,142.33	$749,564.98
Code.				
24	Pensions,.....	$1,149.98		
PFF 30	Supplies,.....		613.33	
33	Mechanics' Supplies,.....	507.68		
34	Cleaning and Toilet Supplies,.....	2.50		
37	Provisions for Persons,.....	8.00		
38	Medical Supplies,.....	11.50		
39	Miscellaneous Supplies,.....	83.65		
PFF 40	Materials,.....		106.85	
42	Metals and Metal Products,.....	18.89		
44	Lumber and Wood Products,.....	1.50		
46	Paints—Painters' Materials,.....	75.11		
49	Miscellaneous Materials,.....	11.35		
PFF 50	Equipment and Parts,.....		441.87	
51	Light, Heat, and Power Equipment,.	292.05		
52	Construction and Conveying Equipment,.....	89.82		
55	Property—Life Preserving Equipment,.....	60.00		
				21,304.38
PD	Fish Warden:			
PD 00	Personal Services,.....		$25.00	
				25.00
PN	Forest Warden:			
PN 00	Personal Services,.....		$100.00	
				100.00
PH	Health Department:			
PHA	Administration.			
PHA 00	Personal Services,.....		$17,382.88	
PHA 10	Services Other Than Personal,.....		1,392.98	
11	Transportation of Persons,.....	573.50		
12	Transportation of Things,.....	31.03		
13	Subsistence and Support of Persons,..	13.25		
15	Communication Service,.....	290.99		
16	Printing, Engraving, and Binding,....	265.43		
19	Miscellaneous Services,.....	213.78		
PHA 20	Fixed Charges and Contributions,.....		50.00	
29	Miscellaneous Fixed Charges,.....	50.00		
PHA 30	Supplies,.....		302.29	
31	Office Supplies,.....	103.72		
33	Mechanics' Supplies,.....	3.06		
35	Wearing Apparel—Sewing Supplies,..	2.72		
37	Provisions for Persons,.....	.75		
38	Medical Supplies,.....	190.74		
39	Miscellaneous Supplies,.....	1.30		
PHA 40	Materials,.....		1.65	
42	Metals and Metal Products,.....	1.65		
PHA 50	Equipment and Parts,.....		344.40	
52	Construction and Conveying Equipment,.....	.50		
54	Furniture and Furnishings,.....	343.90		
				19,474.20
	Forward,.....			$790,468.56

	Forward,			**$790,468.56**
Code.				
PHC	**Dental Clinic:**			
PHC 00	Personal Services,		$2,072.08	
PHC 10	Services Other Than Personal,		127.31	
11	Transportation of Persons,	$32.76		
12	Transportation of Things,	.50		
16	Printing, Engraving, and Binding,	30.80		
19	Miscellaneous Services,	63.25		
PHC 30	Supplies,		362.56	
31	Office Supplies,	6.65		
34	Cleaning and Toilet Supplies,	37.39		
35	Wearing Apparel—Sewing Supplies,	8.15		
38	Medical Supplies,	310.37		
PHC 50	Equipment and Parts,		1,000.77	
54	Furniture and Furnishings,	61.87		
57	Medical Supplies,	938.90		
				3,562.72
PHH	**Hospitals:**			
PHH 00	Personal Services,		$12,718.56	
PHH 10	Services Other Than Personal,		12,152.71	
11	Transportation of Persons,	322.72		
12	Transportation of Things,	48.16		
15	Communication Service,	12.51		
16	Printing, Engraving, and Binding,	23.14		
18	Light, Heat, and Power,	8,245.88		
19	Miscellaneous Services,	3,500.30		
PHH 20	Fixed Charges and Contributions,		6,151.87	
25	Contributions to Persons and Institutions,	6,151.87		
PHH 30	Supplies,		15,775.51	
31	Office Supplies,	33.55		
32	Fuel,	1.00		
33	Mechanics' Supplies,	13.00		
34	Cleaning and Toilet Supplies,	346.01		
35	Wearing Apparel—Sewing Supplies,	614.55		
36	Supplies for Animals,	3.35		
37	Provisions for Persons,	12,873.00		
38	Medical Supplies,	1,684.20		
39	Miscellaneous Supplies,	206.85		
PHH 40	Materials,		356.54	
42	Metals and Metal Products,	64.30		
44	Lumber and Wood Products,	11.47		
45	Rope, Hemp, Twine,	6.38		
46	Paint—Painters' Materials,	274.39		
PHH 50	Equipment and Parts,		210.08	
52	Construction and Conveying Equipment,	1.15		
54	Furniture and Furnishings,	208.93		
				47,365.27
	Forward,			**$841,396.55**

Forward,.....					$841,896.55
Code.					
PHI	MEDICAL INSPECTION OF SCHOOL CHILDREN:				
PHI 00	Personal Services,.....			$11,258.18	
PHI 10	Services Other Than Personal,.....			372.22	
11	Transportation of Persons,.....		$249.09		
16	Printing, Engraving, and Binding,....		117.51		
19	Miscellaneous Services,.....		5.62		
PHI 30	Supplies,.....			179.28	
31	Office Supplies,.....		3.00		
35	Wearing Apparel—Sewing Supplies,..		10.96		
38	Medical Supplies,.....		154.82		
39	Miscellaneous Supplies,.....		10.50		
PHI 50	Equipment and Parts,.....			18.00	
54	Furniture and Furnishings,.....		18.00		
					11,827.68
PHM	LABORATORIES AND MILK INSPECTION:				
PHM 00	Personal Services,.....			$5,649.87	
PHM 10	Services Other Than Personal,.....			1,193.97	
11	Transportation of Persons,.....		796.28		
12	Transportation of Things,.....		2.34		
13	Subsistence and Support of Persons,..		62.05		
15	Communication Service,.....		72.89		
16	Printing, Engraving, and Binding,....		33.18		
18	Light, Heat, and Power,.....		63.78		
19	Miscellaneous Services,.....		163.45		
PHM 20	Fixed Charges and Contributions,.....			600.00	
21	Rents,.....		600.00		
PHM 30	Supplies,.....			193.98	
31	Office Supplies,.....		9.15		
33	Mechanics' Supplies,.....		5.60		
34	Cleaning and Toilet Supplies,.....		15.73		
35	Wearing Apparel—Sewing Supplies,..		10.39		
37	Provisions for Persons,.....		47.44		
38	Medical Supplies,.....		100.31		
39	Miscellaneous Supplies,.....		5.36		
PHM 40	Materials,.....			2.91	
42	Metals and Metal Products,.....		2.05		
46	Paints—Painters' Materials,.....		.86		
PHM 50	Equipment and Parts,.....			16.79	
54	Furniture and Furnishings,.....		6.36		
56	Educational—Recreational Equipment,.....		1.25		
57	Medical Equipment,.....		9.18		
					7,657.52
PHD	TUBERCULOSIS DISPENSARY:				
PHD 00	Personal Services,.....			$1,383.26	
PHD 10	Services Other Than Personal,.....			454.83	
11	Transportation of Persons,.....		164.03		
12	Transportation of Things,.....		1.68		
15	Communication Service,.....		7.00		
Forward,.....				$1,838.09	$860,881.75

	Forward,.....		$1,838.09	$860,881.75
Code.				
18	Light, Heat, and Power,.....	$3.71		
19	Miscellaneous Services,.....	278.41		
PHD 20	Fixed Charges and Contributions,.....		276.00	
21	Rents,.....	276.00		
PHD 30	Supplies,.....		47.41	
31	Office Supplies,.....	2.65		
33	Mechanics' Supplies,.....	1.40		
34	Cleaning and Toilet Supplies,.....	2.70		
38	Medical Supplies,.....	40.66		
PHD 50	Equipment and Parts,.....		12.15	
54	Furniture and Furnishings,.....	12.15		
				2,173.65
GL	LAW DEPARTMENT:			
GL 00	Personal Services,.....		$7,454.58	
GL 10	Services Other Than Personal,.....		349.09	
11	Transportation of Persons,.....	82.52		
12	Transportation of Things,.....	1.30		
13	Subsistence and Support of Persons,..	47.64		
15	Communication Service,.....	52.39		
16	Printing, Engraving, and Binding,....	34.61		
17	Advertising and Publications,.....	21.95		
19	Miscellaneous Services,.....	108.68		
GL 20	Fixed Charges and Contributions,.....		73.40	
23	Taxes and Fees,.....	23.40		
29	Miscellaneous Fixed Charges,.....	50.00		
GL 30	Supplies,.....		59.90	
31	Office Supplies,.....	59.90		
GL 50	Equipment and Parts,.....		141.56	
54	Furniture and Furnishings,.....	141.56		
				8,078.48
GI	LICENSE COMMISSIONERS, BOARD OF:			
GI 00	Personal Services,.....		$775.00	
GI 10	Services Other Than Personal,.....		363.69	
11	Transportation of Persons,.....	3.00		
15	Communication Service,.....	7.39		
16	Printing, Engraving, and Binding,....	135.85		
17	Advertising and Publications,.....	194.95		
19	Miscellaneous Services,.....	22.50		
GI 20	Fixed Charges and Contributions,.....		25.00	
29	Miscellaneous Fixed Charges,.....	25.00		
GI 30	Supplies,.....		5.87	
31	Office Supplies,.....	5.87		
				1,169.56
GM	MAYOR:			
GM 00	Personal Services,.....		$5,739.19	
GM 10	Services Other Than Personal,.....		1,943.32	
11	Transportation of Persons,.....	31.20		
13	Subsistence and Support of Persons,..	136.93		
14	Care of Animals and Vehicles,.....	1,539.63		
15	Communication Service,.....	83.31		
	Forward,.....		$7,682.51	$872,303.44

Code.				
Forward,.....			$7,682.51	$872,303.44
16	Printing, Engraving, and Binding,....	$122.25		
19	Miscellaneous Services,.....	80.00		
GM 30	Supplies,.....		438.34	
31	Office Supplies,.....	86.03		
32	Fuel,.....	112.04		
33	Mechanics' Supplies,.....	290.27		
				8,120.85
DD	MUNICIPAL DEBT:			
DD	PRINCIPAL,.....		$372,700.00	
DDA	City Debt Serials,.....	339,000.00		
DDC	Sinking Funds,.....	33,700.00		
DI	INTEREST,.....		371,426.10	
DIA	City Debt,.....	308,853.75		
DIC	Temporary Loans,.....	62,115.10		
DID	Trust Funds,.....	457.25		
				744,126.10
OM	MUNICIPAL MARKET:			
OM 00	Personal Services,.....		$650.50	
OM 10	Services Other Than Personal,.....		178.50	
16	Printing, Engraving, and Binding,....	8.62		
17	Advertising and Publications,.....	93.60		
19	Miscellaneous Services,.....	76.28		
OM 20	Fixed Charges and Contributions,.....		1,800.00	
21	Rents,.....	1,800.00		
OM 30	Supplies,.....		896.47	
39	Miscellaneous Supplies,.....	896.47		
OM 40	Materials,.....		15.37	
42	Metals and Metal Products,.....	4.37		
45	Rope, Hemp, Twine,.....	11.00		
				3,540.84
PP	POLICE DEPARTMENT:			
PP 00	Personal Services,.....		$303,311.76	
PP 10	Services Other Than Personal,.....		13,738.65	
11	Transportation of Persons,.....	1,294.38		
12	Transportation of Things,.....	58.02		
13	Subsistence and Support of Persons,..	1,999.38		
14	Care of Animals and Vehicles,.....	1,669.52		
15	Communication Service,.....	2,261.94		
16	Printing, Engraving, and Binding,....	902.16		
17	Advertising and Publications,.....	86.51		
18	Light, Heat, and Power,.....	3,873.60		
19	Miscellaneous Services,.....	1,593.14		
PP 20	Fixed Charges and Contributions,.....		10,972.52	
21	Rents,.....	8.00		
22	Insurance,.....	17.50		
23	Taxes and Fees,.....	70.00		
24	Pensions,.....	10,177.02		
26	Damages to Persons and Property,...	100.00		
29	Miscellaneous Services,.....	600.00		
Forward,.....			$328,022.98	$1,628,091.23

Forward,.....			$328,022.93	$1,628,091.23
Code.				
PP 30	Supplies,.....		9,592.49	
31	Office Supplies,.....	$783.22		
32	Fuel,.....	3,501.31		
33	Mechanics' Supplies,.....	3,552.92		
34	Cleaning and Toilet Supplies,.....	825.08		
35	Wearing Apparel—Sewing Supplies,..	318.28		
36	Supplies for Animals,.....	.30		
37	Provisions for Persons,.....	85.84		
38	Medical Supplies,.....	100.95		
39	Miscellaneous Supplies,.....	424.59		
PP 40	Materials,.....		96.57	
42	Metals and Metal Products,.....	46.29		
44	Lumber and Wood Products,.....	5.33		
45	Rope, Hemp, Twine,.....	24.45		
46	Paints—Painters' Materials,.....	20.50		
PP 50	Equipment and Parts,.....		4,441.32	
51	Light, Heat, and Power Equipment,.	400.96		
52	Construction and Conveying Equipment,.....	3,466.05		
54	Furniture and Furnishings,.....	399.81		
55	Property—Life Preserving Equipment,.....	39.50		
57	Medical Equipment,.....	135.00		
				342,153.31
GY	PRINTING, COMMITTEE ON:			
GY 00	Personal Services,.....		$750.00	
GY 10	Services Other Than Personal,.....		3,449.19	
12	Transportation of Things,.....	19.58		
15	Communication Service,.....	8.18		
16	Printing, Engraving, and Binding,...	3,096.80		
17	Advertising and Publications,.....	3.55		
19	Miscellaneous Services,.....	321.08		
GY 30	Supplies,.....		127.90	
31	Office Supplies,.....	127.90		
				4,327.09
WB	PUBLIC BUILDINGS, DEPARTMENT OF:			
WBA	ADMINISTRATION.			
WBA 00	Personal Services,.....		$6,392.49	
WBA 10	Services Other Than Personal,.....		314.00	
11	Transportation of Persons,.....	18.85		
13	Subsistence and Support of Persons,..	11.45		
14	Care of Animals and Vehicles,.....	9.13		
15	Communication Service,.....	148.80		
16	Printing, Engraving, and Binding,...	81.15		
17	Advertising and Publications,.....	44.62		
WBA 20	Fixed Charges and Contributions,.....		100.00	
29	Miscellaneous Fixed Charges,.....	100.00		
WBA 30	Supplies,.....		81.26	
31	Office Supplies,.....	79.86		
32	Fuel,.....	1.40		
Forward,.....			$6,887.75	$1,974,571.63

Code.				
Forward,.....			$6,887.75	$1,974,571.68
WBA 50	Equipment and Parts,.....		576.35	
52	Construction and Conveying Equipment,.....	$576.35		
				7,464.10
WBSM	SCHOOLS—MAINTENANCE:			
WBSM 00	Personal Services,.....		$20,357.10	
WBSM 10	Services Other Than Personal,.....		14,676.99	
11	Transportation of Persons,.....	184.35		
12	Transportation of Things,.....	154.00		
19	Miscellaneous Services,.....	14,338.64		
WBSM 30	Supplies,.....		146.89	
33	Mechanics' Supplies,.....	139.02		
35	Wearing Apparel—Sewing Supplies,..	7.37		
39	Miscellaneous Supplies,.....	.50		
WBSM 40	Materials,.....		9,440.35	
41	Raw Materials,.....	34.49		
42	Metals and Metal Products,.....	1,899.59		
43	Non-Metallic Mineral Products,.....	152.40		
44	Lumber and Wood Products,.....	1,537.56		
45	Rope, Hemp, Twine,.....	43.34		
46	Paints—Painters' Materials,.....	3,355.60		
47	Electrical Materials,.....	2,917.37		
WBSM 50	Equipment and Parts,.....		2,094.97	
51	Light, Heat, and Power Equipment,.	310.19		
52	Construction and Conveying Equipment,.....	201.90		
54	Furniture and Furnishings,.....	1,541.53		
55	Property—Life Preserving Equipment,.....	5.00		
56	Educational—Recreational Equipment,.....	36.35		
				46,716.30
WBSO	SCHOOLS—OPERATION:			
WBSO 00	Personal Services,.....		$116,085.11	
WBSO 10	Services Other Than Personal,.....		16,465.68	
12	Transportation of Things,.....	134.12		
14	Care of Animals and Vehicles,.....	204.16		
18	Light, Heat, and Power,.....	14,009.86		
19	Miscellaneous Services,.....	2,118.04		
WBSO 20	Fixed Charges and Contributions,.....		372.59	
23	Taxes and Fees,.....	160.44		
24	Pensions,.....	212.15		
WBSO 30	Supplies,.....		57,950.18	
32	Fuel,.....	53,671.48		
33	Mechanics' Supplies,.....	666.51		
34	Cleaning and Toilet Supplies,.....	3,221.90		
35	Wearing Apparel—Sewing Supplies,..	6.00		
37	Provisions for Persons,.....	12.45		
38	Medical Supplies,.....	1.79		
39	Miscellaneous Supplies,.....	370.05		
Forward,.....			$190,873.56	$2,028,752.08

	Forward,.....			$190,873.56	$2,028,752.03
Code.					
WBSO 40	Materials,.....			44.64	
42	Metals and Metal Products,.....	$15.46			
44	Lumber and Wood Products,.....	23.28			
46	Paints—Painters' Materials,.....	5.90			
WBSO 50	Equipment and Parts,.....			756.61	
52	Construction and Conveying Equipment,.....	28.80			
54	Furniture and Furnishings,.....	558.50			
55	Property—Life Preserving Equipment,.....	169.31			
					191,674.81
WBG	MUNICIPAL GROUP BUILDINGS:				
WBG 00	Personal Services,.....			$37,404.54	
WBG 10	Services Other Than Personal,.....			8,880.13	
12	Transportation of Things,.....	32.60			
15	Communication Service,.....	1,247.95			
18	Light, Heat, and Power,.....	3,953.48			
19	Miscellaneous Services,.....	3,646.10			
WBG 30	Supplies,.....			3,441.34	
32	Fuel,.....	3.60			
33	Mechanics' Supplies,.....	118.10			
34	Cleaning and Toilet Supplies,.....	2,579.60			
37	Medical Supplies,.....	417.40			
39	Miscellaneous Supplies,.....	322.64			
WBG 40	Materials,.....			2,383.37	
42	Metals and Metal Products,.....	185.03			
43	Non-Metallic Mineral Products,.....	126.49			
44	Lumber and Wood Products,.....	459.01			
45	Rope, Hemp, Twine,.....	.50			
46	Paints—Painters' Materials,.....	917.07			
47	Electrical Materials,.....	525.37			
49	Miscellaneous Materials,.....	169.90			
WBG 50	Equipment and Parts,.....			2,022.88	
51	Light, Heat, and Power Equipment,..	186.00			
52	Construction and Conveying Equipment,.....	.90			
54	Furniture and Furnishings,.....	1,835.98			
					54,132.26
WBH	MUNICIPAL HEATING PLANT:				
WBH 00	Personal Services,.....			$10,042.95	
WBH 10	Services Other Than Personal,.....			427.01	
12	Transportation of Things,.....	8.05			
18	Light, Heat, and Power,.....	192.84			
19	Miscellaneous Services,.....	226.12			
WBH 30	Supplies,.....			9,352.22	
32	Fuel,.....	8,745.66			
33	Mechanics' Supplies,.....	533.92			
34	Cleaning and Toilet Supplies,.....	59.89			
37	Provisions for Persons,.....	12.75			
	Forward,.....			$19,822.18	$2,274,559.10

Code.					
	Forward,.....			$19,822.18	$2,274,559.10
WBH 40	Materials,.....			211.90	
42	Metals and Metal Products,.....	$1.77			
43	Non-Metallic Mineral Products,.....	2.25			
44	Lumber and Wood Products,.....	4.42			
46	Paints—Painters' Materials,.....	197.44			
47	Electrical Materials,.....	6.02			
WBH 50	Equipment and Parts,.....			406.45	
51	Light, Heat, and Power Equipment,..	60.00			
52	Construction and Conveying Equipment,.....	35.20			
54	Furniture and Furnishings,.....	311.25			
					20,440.58
WBR	MILITIA RIFLE RANGE:				
WBR 00	Personal Services,.....			$321.50	
WBR 10	Services Other Than Personal,.....			8.38	
19	Miscellaneous Services,.....	8.38			
WBR 20	Fixed Charges and Contributions,.....			188.58	
22	Insurance,.....	32.88			
23	Taxes and Fees,.....	155.70			
					518.46
WB 215	STORES,.....				2,843.60
EL	PUBLIC LIBRARY:				
EL 20	Fixed Charges and Contributions,.....			$95,059.54	
25	Contributions to Persons and Institutions,.....	95,059.54			
					95,059.54
RP	PUBLIC PARKS, DEPARTMENT OF:				
RPA	ADMINISTRATION.				
RPA 00	Personal Services,.....			$18,419.66	
RPA 10	Services Other Than Personal,.....			291.77	
15	Communication Service,.....	287.27			
17	Advertising and Publications,.....	4.50			
RPA 20	Fixed Charges and Contributions,.....			243.06	
22	Insurance,.....	42.90			
24	Pensions,.....	200.16			
RPA 30	Supplies,.....			6.88	
31	Office Supplies,.....	6.88			
					18,961.37
RPO	OPERATION.				
RPO 00	Personal Services,.....			$93,946.25	
RPO 10	Services Other Than Personal,.....			2,914.65	
12	Transportation of Things,.....	10.14			
14	Care of Animals and Vehicles,.....	243.99			
16	Printing, Engraving, and Binding,....	137.57			
17	Advertising and Publications,.....	6.30			
18	Light, Heat, and Power,.....	443.26			
19	Miscellaneous Services,.....	2,073.39			
RPO 20	Fixed Charges and Contributions,.....			236.67	
21	Rents,.....	204.00			
22	Insurance,.....	32.67			
	Forward,.....			$97,097.57	$2,412,382.60

Forward,.....			$97,097.57	$2,412,382.60
Code.				
RPO 30	Supplies,.....		22,018.88	
31	Office Supplies,.....	$59.48		
32	Fuel,.....	4,957.56		
33	Mechanics' Supplies,.....	2,545.48		
34	Cleaning and Toilet Supplies,.....	334.29		
35	Wearing Apparel—Sewing Supplies,..	168.73		
36	Supplies for Animals,.....	9,852.59		
37	Provisions for Persons,.....	226.10		
38	Medical Supplies,.....	965.92		
39	Miscellaneous Supplies,.....	2,908.23		
RPO 40	Materials,.....		11,881.76	
41	Raw Materials,.....	3,747.58		
42	Metals and Metal Products,.....	1,150.88		
43	Non-Metallic Mineral Products,.....	5,780.99		
44	Lumber and Wood Products,.....	275.31		
45	Rope, Hemp, Twine,.....	143.57		
46	Paints—Painters' Materials,.....	833.43		
RPO 50	Equipment and Parts,.....		11,725.54	
51	Light, Heat, and Power Equipment,.	474.88		
52	Construction and Conveying Equipment,.....	10,582.42		
53	Live Stock,.....	650.00		
55	Property—Life Preserving Equipment,.....	59.49		
56	Educational—Recreational Equipment,.....	7.25		
57	Medical Equipment,.....	1.50		
				142,728.25
OP	Public Safety, Committee on:			
OP 00	Personal Services,.....		$1,027.50	
OP 10	Services Other Than Personal,.....		2,049.14	
11	Transportation of Persons,.....	212.79		
12	Transportation of Things,.....	54.01		
13	Subsistence and Support of Persons,..	19.27		
15	Communication Service,.....	107.71		
16	Printing, Engraving, and Binding,....	386.47		
17	Advertising and Publications,.....	26.44		
18	Light, Heat, and Power,.....	27.45		
19	Miscellaneous Services,.....	1,215.00		
OP 20	Fixed Charges and Contributions,.....		353.71	
21	Rents,.....	53.71		
29	Miscellaneous Fixed Charges,.....	300.00		
OP 30	Supplies,.....		654.21	
31	Office Supplies,.....	27.45		
34	Cleaning and Toilet Supplies,.....	2.25		
35	Wearing Apparel—Sewing Supplies,..	582.17		
37	Provisions for Persons,.....	39.47		
38	Medical Supplies,.....	1.35		
39	Miscellaneous Supplies,.....	51.52		
OP 40	Materials,.....		3.19	
42	Metals and Metal Products,.....	2.19		
Forward,.....			$4,087.75	$2,555,105.85

Forward,.....			$4,087.75	$2,555,105.85
Code.				
43	Non-Metallic Mineral Products,.....	$1.00		
OP 50	Equipment and Parts,.....		24.55	
52	Construction and Conveying Equipment,.....	1.60		
54	Furniture and Furnishings,.....	11.35		
55	Property—Life Preserving Equipment,.....	11.60		
				4,112.30
GW	PUBLIC WORKS, BOARD OF:			
GW 00	Personal Services,.....		$1,604.77	
10	Services Other Than Personal,.....		108.13	
11	Transportation of Persons,.....	74.20		
16	Printing, Engraving, and Binding,...	25.43		
17	Advertising and Publications,.....	7.25		
19	Miscellaneous Services,.....	1.25		
GW 30	Supplies,.....		18.05	
31	Office Supplies,.....	18.05		
				1,730.95
OA	REFUNDS:			
OA 90	Miscellaneous Items,.....		$13,585.89	
	Auditorium Rentals,.....	120.00		
	Corporation Taxes,.....	106.70		
	Interest on Tax Bills,.....	4.89		
	Licenses,.....	27.00		
	Liquor Licenses,.....	11,387.10		
	Public Buildings,.....	60.00		
	Streets and Engineering.			
	Garbage Disposal,.....	10.45		
	Sidewalks and Curbing,.....	92.45		
	Sewer Fees,.....	1,322.01		
	Miscellaneous Sales,.....	5.24		
	Tax Sales,.....	254.55		
	Tuition, Schools,.....	195.50		
				13,585.89
GV	REGISTRARS OF VOTERS, BOARD OF:			
GV 00	Personal Services,.....		$10,982.42	
GV 10	Services Other Than Personal,.....		5,088.84	
11	Transportation of Persons,.....	67.22		
12	Transportation of Things,.....	457.00		
15	Communication Service,.....	70.78		
16	Printing, Engraving, and Binding,...	3,992.41		
17	Advertising and Publications,.....	209.05		
19	Miscellaneous Services,.....	242.38		
GV 20	Fixed Charges and Contributions,.....		642.50	
21	Rents,.....	642.50		
GV 30	Supplies,.....		235.67	
31	Office Supplies,.....	197.68		
33	Mechanics' Supplies,.....	36.64		
39	Miscellaneous Supplies,.....	1.35		
Forward,.....			$16,899.43	$2,574,534.99

Forward,.....			$16,899.43	$2,574,534.99
Code.				
GV 40	Materials,.....		121.13	
42	Metals and Metal Products,.....	$78.00		
43	Non-Metallic Mineral Products,.....	1.80		
45	Rope, Hemp, Twine,.....	1.60		
47	Electrical Materials,.....	39.73		
				17,020.56
OC	RESERVE FOR CONTINGENCIES,.....		$246,562.24	
	Sundry Transfers.			
	Army Food Purchase and Sale, ...	20,000.00		
	Brightwood School Addition,.....	7,000.00		
	Building Department,.....	750.00		
	Celebrations,.....	12,575.00		
	Charities, Department of,.....	10,100.00		
	Chestnut Street School Addition,.....	1,500.00		
	City Clerk,.....	900.00		
	City Collector,.....	100.00		
	City Council,.....	1,100.00		
	City Treasurer,.....	350.00		
	Committee on Public Safety,.....	314.85		
	Fair Price Committee,.....	650.00		
	Fire Department,.....	13,200.00		
	Fulton Street Widening,.....	3,129.54		
	Graded Schools—Lunches,.....	1,000.00		
	Health Department—Dental Clinic,..	1,900.00		
	Homer Street School Addition and Alterations,.....	20,000.00		
	Influenza Hospital,.....	16,000.00		
	Interest—City Debt,.....	22,500.00		
	Interest—Temporary Loans,.....	23,115.10		
	Land Damages,.....	250.00		
	Liberty School,.....	1,000.00		
	License Commissioners,.....	200.00		
	Lyman Street Widening,.....	22,592.50		
	Mill Street Engine House Repairs,....	4,000.00		
	National Bank Tax,.....	91.76		
	Public Buildings, Department of,....	8,086.77		
	Public Library,.....	5,200.00		
	Public Parks,.....	4,250.00		
	Sealer of Weights and Measures,.....	75.00		
	Service Club Rooms,.....	1,000.00		
	Soldiers' Relief Commissioner,.....	404.17		
	Soldiers' and Sailors' Memorial Committee,.....	1,000.00		
	Streets and Engineering, Department of,.....	20,000.00		
	Vocational School Building,.....	5,000.00		
	Washington School,.....	9,862.14		
	Water Street Widening,.....	7,415.41		
				246,562.24
Forward,.....				$2,838,117.79

Code.					
	Forward,.....				$2,838,117.79
ES	SCHOOLS, DEPARTMENT OF:				
ESA	ADMINISTRATION.				
ESA 00	Personal Services,.....			$25,460.12	
ESA 10	Services Other Than Personal,.....			4,169.76	
11	Transportation of Persons,.....		$371.60		
12	Transportation of Things,.....		1,341.22		
13	Subsistence and Support of Persons,..		166.20		
14	Care of Animals and Vehicles,.....		250.00		
15	Communication Service,.....		759.65		
16	Printing, Engraving, and Binding,....		1,016.53		
17	Advertising and Publications,.....		94.17		
19	Miscellaneous Services,.....		170.39		
ESA 20	Fixed Charges and Contributions,.....			304.00	
21	Rents,.....		4.00		
29	Miscellaneous Fixed Charges,.....		300.00		
ESA 30	Supplies,.....			594.83	
31	Office and Educational Supplies,.....		521.53		
33	Mechanics' Supplies,.....		6.30		
34	Cleaning and Toilet Supplies,.....		5.50		
37	Provisions for Persons,.....		11.00		
38	Medical Supplies,.....		2.50		
39	Miscellaneous Supplies,.....		48.00		
ESA 40	Materials,.....			10.36	
44	Lumber and Wood Products,.....		7.66		
45	Rope, Hemp, Twine,.....		2.70		
ESA 50	Equipment and Parts,.....			108.03	
54	Furniture and Furnishings,.....		25.00		
56	Educational—Recreational Equipment,.....		83.03		
					30,647.10
ESG	GRADED SCHOOLS AND JUNIOR HIGH.				
ESG 00	Personal Services,.....			$685,101.82	
ESG 10	Services Other Than Personal,.....			9,375.12	
11	Transportation of Persons,.....		2,651.22		
12	Transportation of Things,.....		421.18		
13	Subsistence and Support of Persons,..		1,002.86		
15	Communication Service,.....		1,342.37		
16	Printing, Engraving, and Binding,....		2,884.33		
18	Light, Heat, and Power,.....		.56		
19	Miscellaneous Services,.....		1,072.65		
ESG 30	Supplies,.....			45,721.57	
31	Office and Educational Supplies,.....		36,073.00		
33	Mechanics' Supplies,.....		293.12		
34	Cleaning and Toilet Supplies,.....		1,960.99		
35	Wearing Apparel—Sewing Supplies,..		1,802.25		
36	Supplies for Animals,.....		2.40		
37	Provisions for Persons,.....		5,047.36		
38	Medical Supplies,.....		280.74		
39	Miscellaneous Supplies,.....		261.71		
	Forward,.....			$740,198.51	$2,868,764.89

Forward,.....			$740,198.51	$2,868,764.89
Code.				
ESG 40	Materials,.....		7,025.86	
41	Raw Materials.....	$68.00		
42	Metal and Metal Products,.....	1,825.44		
43	Non-Metallic Mineral Products,.....	90.53		
44	Lumber and Wood Products,.....	4,293.87		
45	Rope, Hemp, Twine,.....	85.10		
46	Paints—Painters' Materials,.....	662.92		
ESG 50	Equipment and Parts,.....		6,264.62	
51	Light, Heat, and Power Equipment,.	57.65		
52	Construction and Conveying Equipment,.....	1,146.31		
54	Furniture and Furnishings,.....	1,682.19		
56	Educational—Recreational Equipment,.....	3,364.22		
57	Medical Equipment,.....	14.25		
			———	753,488.99
ESC	CENTRAL HIGH SCHOOL.			
ESC 00	Personal Services,.....		$89,034.74	
ESC 10	Services Other Than Personal,.....		1,188.54	
11	Transportation of Persons,.....	66.53		
12	Transportation of Things,.....	32.96		
13	Subsistence and Support of Persons,..	39.25		
15	Communication Service,.....	110.59		
16	Printing, Engraving, and Binding,....	666.87		
19	Miscellaneous Services,.....	272.34		
ESC 20	Fixed Charges and Contributions,.....		41.67	
21	Rents,.....	41.67		
ESC 30	Supplies,.....		4,181.22	
31	Office and Educational Supplies,.....	3,359.27		
33	Mechanics' Supplies,.....	68.19		
34	Wearing Apparel—Sewing Supplies,..	245.69		
35	Cleaning and Toilet Supplies,.....	65.38		
36	Supplies for Animals,.....	.35		
37	Provisions for Persons,.....	167.58		
38	Medical Supplies,.....	249.81		
39	Miscellaneous Supplies,.....	24.95		
ESC 40	Materials,.....		119.04	
42	Metals and Metal Products,.....	17.11		
43	Non-Metallic Mineral Products,.....	2.50		
44	Paints—Painters' Materials,.....	49.69		
46	Lumber and Wood Products,.....	49.74		
ESC 50	Equipment and Parts,.....		720.13	
54	Furniture and Furnishings,.....	72.04		
56	Educational—Recreational Equipment,.....	648.09		
			———	95,285.34
Forward,.....				$3,717,539.22

Code.				
Forward,.....				$3,717,539.22
EST	TECHNICAL HIGH SCHOOL.			
EST 00	Personal Services,.....		$84,014.79	
EST 10	Services Other Than Personal,.....		1,353.76	
11	Transportation of Persons,.....	$30.63		
12	Transportation of Things,.....	71.51		
13	Subsistence and Support of Persons,..	11.00		
15	Communication Service,.....	187.96		
16	Printing, Engraving, and Binding,....	640.33		
19	Miscellaneous Services,.....	412.33		
EST 20	Fixed Charges and Contributions,.....		41.66	
21	Rents,.....	41.66		
EST 30	Supplies,.....		3,964.10	
31	Office and Educational Supplies,.....	2,618.33		
32	Fuel,.....	87.00		
33	Mechanics' Supplies,.....	205.49		
34	Cleaning and Toilet Supplies,.....	215.72		
35	Wearing Apparel—Sewing Supplies,..	118.15		
37	Provisions for Persons,.....	276.10		
38	Medical Supplies,.....	414.29		
39	Miscellaneous Supplies,.....	29.02		
EST 40	Materials,.....		1,379.73	
42	Metals and Metal Products,.....	857.63		
44	Lumber and Wood Products,.....	460.88		
46	Paints—Painters' Materials,.....	61.22		
EST 50	Equipment and Parts,.....		1,150.47	
51	Light, Heat, and Power Equipment, .	127.25		
52	Construction and Conveying Equipment,.....	415.35		
54	Furniture and Furnishing,.....	169.86		
56	Educational—Recreational Equipment,.....	438.01		
				91,904.51
ESH	HIGH SCHOOL OF COMMERCE.			
ESH 00	Personal Services,.....		$92,703.34	
ESH 10	Services Other Than Personal,.....		2,935.65	
11	Transportation of Persons,.....	58.76		
12	Transportation of Things,.....	96.95		
13	Subsistence and Support of Persons,..	61.15		
15	Communication Service,.....	48.60		
16	Printing, Engraving, and Binding,....	666.36		
17	Advertising and Publications,.....	44.94		
19	Miscellaneous Services,.....	1,958.89		
ESH 20	Fixed Charges and Contributions,.....		41.67	
21	Rents,.....	41.67		
ESH 30	Supplies,.....		7,091.83	
31	Office and Educational Supplies,.....	5,469.58		
33	Mechanics' Supplies,.....	11.02		
34	Cleaning and Toilet Supplies,.....	145.24		
35	Wearing Apparel—Sewing Supplies,..	163.87		
37	Provisions for Persons,.....	929.18		
38	Medical Supplies,.....	372.94		
Forward,.....			$102,772.49	$3,809,443.73

	Forward,.....		$102,772.49	$3,809,443.73
Code.				
ESH 40	Materials,.....		422.69	
42	Metals and Metal Products,.....	$46.71		
44	Lumber and Wood Products,.....	329.98		
46	Paints—Painters' Materials,.....	46.00		
ESH 50	Equipment and Parts,.....		1,476.47	
52	Construction and Conveying Equipment,.....	17.45		
54	Furniture and Furnishings,.....	369.30		
56	Educational—Recreational Equipment,.....	1,089.72		
			———	104,671.65
ESV	VOCATIONAL SCHOOL.			
ESV 00	Personal Services,.....		$15,217.34	
ESV 10	Services Other Than Personal,.....		415.32	
11	Transportation of Persons,.....	112.46		
12	Transportation of Things,.....	33.02		
13	Subsistence and Support of Persons,..	25.85		
15	Communication Service,.....	69.55		
19	Miscellaneous Services,.....	174.44		
ESV 30	Supplies,.....		902.60	
31	Office and Educational Supplies,.....	642.43		
33	Mechanics' Supplies,.....	184.99		
34	Cleaning and Toilet Supplies.....	30.46		
35	Wearing Apparel—Sewing Supplies,..	3.22		
38	Medical Supplies,.....	11.09		
39	Miscellaneous Supplies,.....	30.41		
ESV 40	Materials,.....		1,623.31	
41	Raw Materials,.....	.70		
42	Metals and Metal Products,.....	532.67		
44	Lumber and Wood Products,.....	998.03		
45	Rope, Hemp, Twine,.....	2.88		
46	Paints—Painters' Materials,.....	89.03		
ESV 50	Equipment and Parts,.....		969.29	
51	Light, Heat, and Power Equipment,..	4.80		
52	Construction and Conveying Equipment,.....	697.46		
54	Furniture and Furnishings,.....	18.58		
56	Educational—Recreational Equipment,.....	248.45		
			———	19,127.86
ESEG	EVENING SCHOOLS—ELEMENTARY.			
ESEG 00	Personal Services,.....		$4,896.50	
ESEG 10	Services Other Than Personal,.....		44.66	
15	Communication Service,.....	5.00		
16	Printing, Engraving, and Binding,....	39.66		
ESEG 30	Supplies,.....		112.52	
31	Office and Educational Supplies,.....	112.52		
ESEG 50	Equipment and Parts,.....		350.00	
54	Furniture and Furnishings,.....	350.00		
			———	5,403.68
	Forward,.....			$3,938,646.92

Code.					
	Forward,.....				$3,938,646.92
ESEX	EVENING HIGH—EXTENSION WORK.				
ESEX 00	Personal Services,.....			$1,356.00	
ESEX 10	Services Other Than Personal,.....			106.98	
11	Transportation of Persons,.....		$6.00		
12	Transportation of Things,.....		9.18		
13	Subsistence and Support of Persons,..		11.10		
16	Printing, Engraving, and Binding,....		41.70		
19	Miscellaneous Services,.....		39.00		
ESEX 30	Supplies,.....			100.08	
31	Office and Educational Supplies,.....		100.08		
ESEX 50	Equipment and Parts,.....			460.94	
56	Educational—Recreational Equipment,.....		460.94		
					2,024.00
ESEH	EVENING SCHOOLS—HIGH.				
ESEH 00	Personal Services,.....			$7,115.75	
ESEH 10	Services Other Than Personal,.....			154.08	
12	Transportation of Things,.....		3.59		
16	Printing, Engraving, and Binding,....		114.96		
19	Miscellaneous Services,.....		35.53		
ESEH 30	Supplies,.....			989.04	
31	Office and Educational Supplies,.....		952.79		
39	Miscellaneous Supplies,.....		36.25		
					8,258.87
ESTR	EVENING SCHOOLS—EVENING SCHOOL OF TRADES.				
ESTR 00	Personal Services,.....			$6,873.00	
ESTR 10	Services Other Than Personal,.....			72.91	
16	Printing, Engraving, and Binding,....		33.91		
19	Miscellaneous Services,.....		39.00		
ESTR 30	Supplies,.....			325.09	
31	Office and Educational Supplies,.....		28.80		
33	Mechanics' Supplies,.....		214.49		
34	Cleaning and Toilet Supplies,.....		16.19		
35	Wearing Apparel—Sewing Supplies,..		64.48		
39	Miscellaneous Supplies,.....		1.13		
ESTR 40	Material,.....			117.40	
42	Metals and Metal Products,.....		102.40		
44	Lumber and Wood Products,.....		15.00		
ESTR 50	Equipment and Parts, ...			120.25	
52	Construction and Conveying Equipment,.....		120.25		
					7,508.65
ESEV	EVENING SCHOOLS—VOCATIONAL.				
ESEV 00	Personal Services,.....			$1,718.85	
ESEV 10	Services Other Than Personal,.....			18.40	
17	Advertising and Publications,.....		8.40		
19	Miscellaneous Services,.....		10.00		
ESEV 20	Fixed Charges and Contributions,.....			34.00	
29	Miscellaneous Fixed Charges,.....		34.00		
ESEV 30	Supplies,.....			24.98	
31	Office and Educational Supplies,.....		18.50		
	Forward,.....			$1,796.23	$3,956,438.44

Code.					
	Forward,.....			$1,796.23	$3,956,438.44
33	Mechanics' Supplies,.....		$6.48		
ESEV 40	Material,.....			112.96	
42	Metals and Metal Products,.....		18.73		
44	Lumber and Wood Products,.....		94.23		
ESEV 50	Equipment and Parts,.....			55.60	
56	Educational—Recreational Equipment,.....		55.60		
					1,964.79
ESK	KINDERGARTENS.				
ESK 00	Personal Services,.....			$48,865.01	
ESK 10	Services Other Than Personal,.....			57.68	
12	Transportation of Things,.....		31.43		
19	Miscellaneous Services,.....		26.25		
ESK 20	Fixed Charges and Contributions,.....			52.00	
25	Contributions to Persons and Institutions,.....		52.00		
ESK 30	Supplies,.....			807.20	
31	Office and Educational Supplies,.....		692.39		
35	Wearing Apparel—Sewing Supplies,..		14.70		
39	Miscellaneous Supplies,.....		100.11		
ESK 40	Materials,.....			18.55	
41	Raw Materials,.....		12.00		
44	Lumber and Wood Products,.....		6.55		
ESK 50	Equipment and Parts,.....			404.90	
54	Furniture and Furnishings,.....		385.72		
56	Educational—Recreational Equipment,.....		19.18		
					50,205.34
ESL	HIGH SCHOOLS LUNCH.				
ESL 00	Personal Services,.....			$10,586.48	
ESL 10	Services Other Than Personal,.....			360.14	
11	Transportation of Persons,.....		52.38		
12	Transportation of Things,.....		18.72		
15	Communication Service,.....		16.67		
17	Advertising and Publications,.....		1.20		
19	Miscellaneous Services,.....		271.17		
ESL 20	Fixed Charges and Contributions,.....			950.00	
29	Miscellaneous Fixed Charges,.....		950.00		
ESL 30	Supplies,.....			30,441.35	
31	Office Supplies,.....		34.70		
33	Mechanics' Supplies,.....		11.35		
34	Cleaning and Toilet Supplies,.....		87.05		
35	Wearing Apparel—Sewing Supplies,..		3.96		
37	Provisions for Persons,.....		30,266.23		
39	Miscellaneous Supplies,.....		38.06		
ESL 40	Materials,.....			6.85	
46	Paints—Painters' Materials,.....		6.85		
ESL 50	Equipment and Parts,.....			933.42	
54	Furniture and Furnishings,.....		644.31		
56	Educational—Recreational Equipment,.....		289.11		43,278.24
	Forward,.....				$4,051,886.81

Code.				
Forward,.....				$4,051,886.81
ESS	SUMMER SCHOOLS.			
ESS 00	Personal Services,.....		$9,016.00	
ESS 10	Services Other Than Personal,.....		105.83	
12	Transportation of Things,.....	$1.76		
15	Communication Service,.....	8.00		
16	Printing, Engraving, and Binding,....	62.47		
19	Miscellaneous Services,.....	33.60		
ESS 30	Supplies,.....		147.76	
31	Office and Educational Supplies,.....	147.76		
				9,269.59
ESGL	GRADED SCHOOLS LUNCH.			
ESGL 00	Personal Services,.....		$183.60	
ESGL 10	Services Other Than Personal,.....		10.50	
19	Miscellaneous Services,.....	10.50		
ESGL 30	Supplies,.....		514.84	
35	Wearing Apparel—Sewing Supplies,..	24.17		
37	Provisions for Persons,.....	487.67		
39	Miscellaneous Supplies,.....	3.00		
ESGL 40	Materials,.....		131.62	
42	Metals and Metal Products,.....	131.62		
ESGL 50	Equipment and Parts,.....		56.15	
54	Furniture and Furnishings,.....	47.90		
56	Educational—Recreational Equipment,.....	8.25		
				896.71
PS	SMOKE INSPECTOR:			
PS 00	Personal Services,.....		$262.47	
PS 10	Services Other Than Personal,.....		59.00	
19	Miscellaneous Services,.....	59.00		
				321.47
SA	SOLDIERS' AND SAILORS' BENEFITS:			
SA 00	Personal Services,.....		$2,263.96	
SA 10	Services Other Than Personal,.....		136.40	
11	Transportation of Persons,.....	20.18		
15	Communication Service,.....	34.25		
16	Printing, Engraving, and Binding,....	33.97		
19	Miscellaneous Services,.....	48.00		
SA 20	Fixed Charges and Contributions,.....		16,537.83	
25	Contributions to Persons and Institutions,.....	16,537.83		
SA 30	Supplies,.....		9.45	
31	Office Supplies,.....	8.20		
39	Miscellaneous Supplies,.....	1.25		
SA 50	Equipment and Parts,.....		120.98	
54	Furniture and Furnishings,.....	120.98		
				19,068.62
SC	SOLDIERS' AND SAILORS' GRAVES, CARE OF:			
SC 00	Personal Services,.....		$207.22	
SC 10	Services Other Than Personal,.....		629.00	
19	Miscellaneous Services,.....	629.00		
				836.22
Forward,.....				$4,082,279.42

	Forward,.....				$4,082,279.42
Code.					
WS	STREETS AND ENGINEERING, DEPARTMENT OF:				
WSA	ADMINISTRATION.				
WSA 00	Personal Services,.....			$27,080.59	
WSA 10	Services Other Than Personal,.....			4,076.88	
11	Transportation of Persons,.....	$235.58			
12	Transportation of Things,.....	33.59			
13	Subsistence and Support of Persons,..	138.28			
15	Communication Service,.....	858.44			
16	Printing, Engraving, and Binding,....	1,559.02			
17	Advertising and Publications,.....	211.80			
18	Light, Heat, and Power,.....	833.74			
19	Miscellaneous Services,.....	205.93			
WSA 20	Fixed Charges and Contributions,.....			2,152.40	
21	Rents,.....	34.00			
22	Insurance,.....	508.40			
23	Taxes and Fees,.....	249.20			
24	Pensions,.....	1,060.80			
29	Miscellaneous Fixed Charges,.....	300.00			
WSA 30	Supplies,.....			556.04	
31	Office Supplies,.....	545.36			
32	Fuel,.....	10.68			
WSA 50	Equipment and Parts,.....			557.01	
52	Construction and Conveying Equipment,.....	4.76			
54	Furniture and Furnishings,.....	551.75			
56	Educational—Recreational Equipment,.....	.50			
					34,422.42
WSE	ENGINEERING.				
WSE 00	Personal Services,.....			$24,383.40	
WSE 10	Services Other Than Personal,.....			609.62	
11	Transportation of Persons,.....	437.90			
12	Transportation of Things,.....	2.16			
13	Subsistence and Support of Persons,.	13.61			
15	Communication Service,.....	1.07			
16	Printing, Engraving, and Binding,....	12.64			
19	Miscellaneous Services,.....	142.24			
WSE 30	Supplies,.....			369.16	
31	Office Supplies,.....	364.04			
33	Mechanics' Supplies,.....	.45			
34	Cleaning and Toilet Supplies,.....	1.04			
38	Medical Supplies,.....	2.43			
39	Miscellaneous Supplies,.....	1.20			
WSE 50	Equipment and Parts,.....			360.94	
56	Educational—Recreational Equipment,.....	360.94			
					25,723.12
WSS	SEWERS.				
WSS 00	Personal Services,.....			$56,826.74	
WSS 10	Services Other Than Personal.....			5,460.75	
	Forward,.....			$62,287.49	$4,142,424.96

Forward,.....			$62,287.49	$4,142,424.96
Code.				
11	Transportation of Persons,.....	$51.19		
12	Transportation of Things,.....	20.72		
15	Communication Service,.....	13.68		
18	Light, Heat, and Power,.....	.30		
19	Miscellaneous Services,.....	5,374.86		
WSS 30	Supplies,.....		863.68	
31	Office Supplies,.....	7.40		
32	Fuel,.....	368.73		
33	Mechanics' Supplies,.....	78.94		
34	Cleaning and Toilet Supplies,.....	130.64		
35	Wearing Apparel—Sewing Supplies,..	263.54		
39	Miscellaneous Supplies,.....	14.43		
WSS 40	Materials,.....		20,736.49	
41	Raw Materials,.....	2,084.33		
42	Metals and Metal Products,.....	4,090.22		
43	Non-Metallic Mineral Products,.....	13,095.02		
44	Lumber and Wood Products,.....	1,465.45		
49	Miscellaneous Materials,.....	51.47		
WSS 50	Equipment and Parts,.....		1,508.44	
52	Construction and Conveying Equipment,.....	1,508.44		
				85,396.10
WSG	Garbage Collection.			
WSG 00	Personal Services,.....		$27,451.04	
WSG 10	Services Other Than Personal,.....		1,444.86	
13	Subsistence and Support of Persons,..	3.00		
19	Miscellaneous Services,.....	1,441.36		
WSG 20	Fixed Charges and Contributions,.....		19.75	
23	Taxes and Fees,.....	19.75		
WSG 30	Supplies,.....		87.50	
35	Wearing Apparel—Sewing Supplies,..	87.50		
WSG 40	Materials.....		15.90	
42	Metals and Metal Products,.....	3.25		
46	Paints—Painters' Materials,.....	12.65		
				29,018.55
WSR	Ashes and Refuse Disposal.			
WSR 00	Personal Services,.....		$115,577.86	
WSR 10	Services Other Than Personal,.....		2,814.18	
16	Printing, Engraving, and Binding,....	7.00		
19	Miscellaneous Services,.....	2,807.18		
WSR 30	Supplies,.....		8.17	
32	Fuel,.....	4.83		
33	Mechanics' Supplies,.....	3.25		
34	Cleaning and Toilet Supplies,.....	.09		
WSR 40	Materials,.....		4.40	
42	Metals and Metal Products,.....	1.16		
44	Lumber and Wood Products,.....	2.09		
46	Paints—Painters' Materials,.....	1.15		
				118,404.61
Forward,.....				$4,375,244.22

Code.					
	Forward,.....				$4,375,244.22
	WSC STREET CLEANING.				
WSC 00	Personal Services,.....			$94,002.45	
WSC 10	Services Other Than Personal,.....			3.08	
19	Miscellaneous Services,.....		3.08		
WSC 30	Supplies,.....			332.11	
32	Fuel,.....		2.28		
33	Mechanics' Supplies,.....		1.20		
35	Wearing Apparel—Sewing Supplies,..		328.63		
WSC 40	Materials,.....			11.52	
41	Raw Materials,.....		11.52		
					94,349.16
	WSH HIGHWAYS.				
WSH 00	Personal Services,.....			$145,796.71	
WSH 10	Services Other Than Personal,.....			3,257.53	
11	Transportation of Persons,.....		104.51		
12	Transportation of Things,.....		2,775.99		
15	Communication Service,.....		2.00		
19	Miscellaneous Services,.....		375.03		
WSH 20	Fixed Charges and Contributions,.....			2.00	
23	Taxes and Fees,.....		2.00		
WSH 30	Supplies,.....			6,580.72	
32	Fuel,.....		5,695.77		
33	Mechanics' Supplies,.....		824.07		
34	Cleaning and Toilet Supplies,.....		26.47		
39	Miscellaneous Supplies,.....		34.41		
WSH 40	Materials,.....			115,593.78	
41	Raw Materials,.....		62,763.88		
42	Metals and Metal Products,.....		724.78		
43	Non-Metallic Mineral Products,.....		46,399.39		
44	Lumber and Wood Products,.....		4,049.42		
45	Fiber Products,.....		1,035.71		
46	Paints—Painters' Materials,.....		618.20		
49	Miscellaneous Materials,.....		2.40		
WSH 50	Equipment and Parts,.....			61.47	
52	Construction and Conveying Equipment,.....		61.47		
					271,292.21
	WSB BRIDGES.				
WSB 00	Personal Services,.....			$16,212.03	
WSB 10	Services Other Than Personal,.....			18,441.16	
11	Transportation of Persons,.....		153.94		
12	Transportation of Things,.....		2,448.18		
13	Subsistence and Support of Persons,..		8.65		
15	Communication Service,.....		5.12		
19	Miscellaneous Services,.....		15,825.27		
WSB 20	Fixed Charges and Contributions,.....			24.00	
21	Rents,.....		24.00		
WSB 30	Supplies,.....			93.41	
32	Fuel,.....		48.90		
33	Mechanics' Supplies,.....		42.91		
34	Cleaning and Toilet Supplies,.....		1.60		
	Forward,.....			$34,770.60	$4,740,885.59

Code.					
Forward,.....				$34,770.60	$4,740,885.59
WSB 40	Materials,.....			21,507.33	
41	Raw Materials,.....	$576.48			
42	Metals and Metal Products,.....	1,478.02			
43	Non-Metallic Mineral Products,.....	132.95			
44	Lumber and Wood Products,.....	18,800.09			
46	Paints—Painters' Materials,.....	384.49			
49	Miscellaneous Materials,.....	135.80			
					56,277.98
WSW	SIDEWALKS AND CURBING.				
WSW 00	Personal Services,.....			$21,144.96	
WSW 10	Services Other Than Personal,.....			15.05	
12	Transportation of Things,.....	15.05			
WSW 30	Supplies,.....			58.72	
32	Fuel,.....	53.02			
33	Mechanics' Supplies,.....	5.70			
WSW 40	Materials,.....			14,742.76	
41	Raw Materials,.....	8,761.56			
42	Metals and Metal Products,.....	6.94			
43	Non-Metallic Mineral Products,.....	5,681.08			
44	Lumber and Wood Products,.....	280.18			
49	Miscellaneous Materials,.....	13.00			
					35,961.49
WSK	STREET SPRINKLING.				
WSK 00	Personal Services,.....			$6,151.15	
WSK 10	Services Other Than Personal,.....			5,634.64	
19	Miscellaneous.....	5,634.64			
WSK 30	Supplies,.....			2.21	
32	Fuel,.....	2.21			
					11,788.00
WSO	STREET OILING.				
WSO 00	Personal Services,.....			$8,387.51	
WSO 30	Supplies,.....			.23	
32	Fuel,.....	.23			
WSO 40	Materials,.....			21,538.46	
41	Raw Materials,.....	17,791.81			
43	Non-Metallic Mineral Products,.....	3,746.65			
					29,926.20
WSL	STREET LIGHTING.				
WSL 00	Personal Services,.....			$1,995.75	
10	Services Other Than Personal,.....			140,612.64	
11	Transportation of Persons,.....	14.34			
13	Subsistence and Support of Persons,..	4.25			
16	Printing, Engraving, and Binding,....	4.50			
18	Light, Heat, and Power,.....	140,586.77			
19	Miscellaneous Services,.....	2.78			
WSL 30	Supplies,.....			81.92	
31	Office Supplies,.....	81.92			
WSL 50	Equipment and Parts,.....			9.94	
52	Construction and Conveying Equipment,.....	9.94			
					142,700.25
Forward,.....					$5,017,589.46

Forward,.....				$5,017,539.46
Code.				
WSP	REPAIR SHOPS.			
WSP 00	Personal Services,.....		$22,392.14	
WSP 10	Services Other Than Personal,.....		110.65	
19	Miscellaneous Services,.....	$110.65		
WSP 30	Supplies,.....		949.03	
32	Fuel,.....	182.04		
33	Mechanics' Supplies,.....	633.74		
34	Cleaning and Toilet Supplies,.....	36.63		
38	Medical Supplies,.....	1.00		
39	Miscellaneous Supplies,.....	95.62		
WSP 40	Materials,.....		1,976.19	
41	Raw Materials,.....	11.13		
42	Metals and Metal Products,.....	521.56		
43	Non-Metallic Mineral Products,.....	46.62		
44	Lumber and Wood Products,.....	754.07		
45	Fiber Products,.....	27.48		
46	Paints—Painters' Materials,.....	607.28		
49	Miscellaneous Materials,.....	8.05		
WSP 50	Equipment and Parts,.....		307.16	
52	Construction and Conveying Equipment,.....	175.16		
54	Furniture and Furnishings,.....	132.00		
				25,735.17
WSY	STABLES AND YARDS.			
WSY 00	Personal Services,.....		$53,087.08	
WSY 10	Services Other Than Personal,.....		7,140.61	
11	Transportation of Persons,.....	5.00		
12	Transportation of Things,.....	2,154.45		
13	Subsistence and Support of Persons,..	.45		
14	Care of Animals and Vehicles,.....	2,279.12		
15	Communication Service,.....	1.20		
17	Advertising and Publications,.....	12.30		
18	Light, Heat, and Power,.....	67.10		
19	Miscellaneous Services,.....	2,620.99		
WSY 20	Fixed Charges and Contributions,.....		60.30	
23	Taxes and Fees,.....	60.30		
WSY 30	Supplies,.....		34,765.04	
31	Office Supplies,.....	3,008.19		
32	Fuel,.....	9,867.27		
33	Mechanics' Supplies,.....	3,505.39		
34	Cleaning and Toilet Supplies,.....	617.99		
35	Wearing Apparel—Sewing Supplies,..	6,621.50		
36	Supplies for Animals,.....	10,809.86		
37	Provisions for Persons,.....	14.72		
38	Medical Supplies,.....	71.67		
39	Miscellaneous Supplies,.....	248.45		
WSY 40	Materials,.....		10,707.99	
41	Raw Materials,.....	1,055.29		
42	Metals and Metal Products,.....	4,118.71		
43	Non-Metalic Mineral Products,.....	1,841.12		
44	Lumber and Wood Products,.....	2,478.29		
Forward,.....			$105,761.02	$5,043,274.63

	Forward,.....			$105,761.02	$5,043,274.63
Code.					
45	Fiber Products,.....	$438.88			
46	Paints—Painters' Materials,.....	775.70			
WSY 50	Equipment and Parts,.....		36,599.07		
52	Construction and Conveying Equipment,.....	36,241.72			
53	Live Stock,.....	325.00			
54	Furniture and Furnishings,.....	18.10			
56	Educational—Recreational Equipment,.....	2.55			
57	Medical Equipment,.....	11.70			
					142,360.09
WS 215	Stores,.....				32,077.62
SE	Tax Exemptions—Soldiers and Sailors:				
SE 20	Fixed Charges and Contributions,.....		$1,152.47		
23	Taxes and Fees Paid by City,.....	1,152.47			
					1,152.47
PM	Weights and Measures, Sealer of:				
PM 00	Personal Services,.....		$4,691.36		
PM 10	Services Other Than Personal,.....		576.04		
11	Transportation of Persons,.....	17.27			
12	Transportation of Things,.....	128.91			
13	Subsistence and Support of Persons,..	21.00			
14	Care of Animals and Vehicles,.....	259.34			
15	Communication Service,.....	7.60			
16	Printing, Engraving, and Binding,....	57.19			
17	Advertising and Publications,.....	1.88			
19	Miscellaneous Services,.....	82.85			
PM 20	Fixed Charges and Contributions,.....		29.24		
23	Taxes and Fees,.....	29.24			
PM 30	Supplies,.....		537.75		
31	Office Supplies,.....	45.55			
32	Fuel,.....	279.16			
33	Mechanics' Supplies,.....	142.62			
34	Cleaning and Toilet Supplies,.....	2.50			
38	Medical Supplies,.....	5.65			
39	Miscellaneous Supplies,.....	62.27			
PM 40	Materials,.....		4.34		
42	Metals and Metal Products,.....	.73			
46	Paints—Painters' Materials,.....	3.61			
PM 50	Equipment and Parts,.....		215.71		
52	Construction and Conveying Equipment,.....	10.73			
54	Furniture and Furnishings,.....	75.55			
55	Property—Life Preserving Equipment,.....	129.43			
					6,054.44
PW	Wires, Inspector of:				
PW 00	Personal Services,.....		$450.00		
PW 10	Services Other Than Personal,.....		156.97		
12	Transportation of Things,.....	21.23			
15	Communication Service,.....	5.00			
	Forward,.....			$606.97	$5,224,919.25

Forward,.....			$606.97	$5,224,919.25
Code.				
16	Printing, Engraving, and Binding,....	$17.98		
17	Advertising and Publications,.....	10.80		
19	Miscellaneous Services,.....	102.01		
PW 20	Fixed Charges and Contributions,.....		175.00	
24	Pensions,.....	175.00		
PW 40	Materials,.....		93.75	
42	Metals and Metal Products,.....	93.51		
44	Lumber and Wood Products,.....	.24		
PW 50	Equipment and Parts,.....		434.20	
51	Light, Heat, and Power Equipment, .	434.20		
				1,309.92
OW	WORKMEN'S COMPENSATION:			
OW 10	Services Other Than Personal,.....		$828.07	
11	Transportation of Persons,.....	2.50		
13	Subsistence and Support of Persons,..	141.31		
14	Care of Animals and Vehicles,.....	74.30		
15	Communication Service,.....	63.46		
19	Miscellaneous Services,.....	546.50		
OW 20	Fixed Charges and Contributions,.....		1,764.32	
26	Damages to Persons and Property,...	864.32		
29	Miscellaneous Fixed Charges,.....	900.00		
OW 30	Supplies,.....		8.10	
31	Office Supplies,.....	.90		
38	Medical Supplies,.....	7.20		
				2,600.49
	SPECIAL ACCOUNTS:			
	Army Training School,.....		$791.41	
	Army Food Purchase and Sale,.....		17,970.96	
	Brightwood School Addition,.....		7,000.00	
	Chestnut Street School Addition,....		1,500.00	
	Forest Park School Addition,.....		6,500.00	
	Fulton Street Widening,.....		33,936.47	
	Homer Street School Addition,.....		23,500.00	
	Influenza Hospital, Special Committee on,.....		13,498.24	
	Liberty School,.....		9,219.59	
	Lyman Street Widening,.....		22,592.50	
	Military Relief Committee,.....		21,000.00	
	Mill Street Engine House Repairs,....		10,428.84	
	Porter Lake,.....		32,417.95	
	Revision of Ordinances,.....		179.53	
	Service Club Rooms,.....		878.39	
	Toll Bridge Repairs.....		46,201.97	
	Van Horn Park,.....		1,272.55	
	Vocational School Building,.....		13.48	
	Washington School,.....		9,862.14	
	Water Street Widening,.....		7,415.41	
				266,179.43
Total,.....				$5,495,009.09

CAPITAL FUND.

Brightwood School Addition,	$9,540.38	
Chestnut Street School Addition,	55,391.61	
Dwight Street Widening,	636,298.05	
Forest Park School Addition,	183,023.36	
Fulton Street Widening,	55,907.54	
Homer Street School Additions and Alterations,	78,153.80	
Hooker School (New),	37,763.24	
Land for Schoolhouse Purposes, Berkshire Avenue,	3,881.78	
Surface Sewer, 1919,	29,223.15	
Technical High School, Additional Land,	22,521.41	
Washington School,	24,718.84	
Water Street Underpass,	17,500.00	
Water Street Widening,	7,415.41	
		$1,161,338.57

SPECIAL AND TRUST FUND.

Gurdon Bill Fund,	$1,335.85	
Sherman D. Porter Fund,	12,442.24	
Court Square Extension Fund,	22,000.00	
Helen M. Hoseley Fund,	5,201.54	
Smith—Hughes Fund,	943.73	
		$41,923.36

APPROPRIATION ENCUMBRANCES.
(Purchase Orders Outstanding November 30, 1919.)
(Schedule F.)

GENERAL FUND.

Code.					
GS		ASSESSORS:			
GS	50	Equipment,.....		$363.80	
	54	Furniture and Furnishings,.....	$363.80		
					$363.80
PB		BUILDING COMMISSIONER:			
PB	50	Equipment,.....		145.00	
	54	Furniture and Furnishings,.....	145.00		
					145.00
CC		CHARITIES, DEPARTMENT OF:			
CCH		ALMSHOUSE.			
CCH	30	Supplies,.....		67.50	
	35	Wearing Apparel,.....	67.50		
					67.50
GA		CITY AUDITOR:			
GA	10	Services Other Than Personal,.....		139.00	
	16	Printing, Engraving, etc.,.....	139.00		
					139.00
GR		CITY COLLECTOR:			
GR	10	Services Other Than Personal,.....		43.50	
	15	Communication Service,.....	39.00		
	16	Printing, Engraving, etc.,.....	4.50		
					43.50
GT		CITY TREASURER:			
GT	10	Services Other Than Personal,.....		96.95	
	15	Communication Service,.....	96.95		
					96.95
PF		FIRE DEPARTMENT:			
PFA		ADMINISTRATION.			
PFA	30	Supplies,.....		52.84	
	31	Office Supplies,.....	52.84		
					52.84
PFO		OPERATION.			
PFO	30	Supplies,.....		692.33	
	32	Fuel,.....	590.41		
	38	Medical Supplies,.....	101.92		
					692.33
PH		HEALTH DEPARTMENT:			
PHC		DENTAL CLINIC.			
PHC	30	Supplies,.....		45.90	
	38	Medical Supplies,.....	45.90		
PHC	50	Equipment,.....		128.25	
	57	Medical Equipment,.....	128.25		
					174.15
PP		POLICE DEPARTMENT:			
PP	50	Equipment,.....		80.00	
	59	Miscellaneous Equipment,.....	80.00		
					80.00
		Forward,.....			$1,854.57

Code.					
	Forward,.....				$1,854.57
WB	PUBLIC BUILDINGS, DEPARTMENT OF:				
WBSM	SCHOOLS—MAINTENANCE.				
WBSM 10	Services Other Than Personal,.....		$379.90		
19	Miscellaneous Services,.....	$379.90			
					379.90
WBSO	SCHOOLS—OPERATION.				
WBSO 30	Supplies,.....		10,555.20		
32	Fuel,.....	10,544.70			
34	Cleaning and Toilet Supplies,.....	10.50			
					10,555.20
WBG	MUNICIPAL GROUP BUILDINGS:				
WBG 10	Services Other Than Personal,.....		145.00		
19	Miscellaneous Services,.....	145.00			
WBG 50	Equipment,.....		230.00		
54	Furniture and Furnishings,.....	230.00			
					375.00
WBH	MUNICIPAL HEATING PLANT:				
WBH 10	Services Other Than Personal,.....		84.00		
19	Miscellaneous Services,.....	84.00			
					84.00
ES	SCHOOL DEPARTMENT:				
ESG	GRADED SCHOOLS AND JUNIOR HIGH.				
ESG 30	Supplies,.....		1,944.71		
31	Office Supplies,.....	1,641.70			
35	Wearing Apparel,.....	213.01			
39	Miscellaneous Supplies,.....	90.00			
ESG 40	Materials,.....		427.24		
42	Metals and Metal Products,.....	42.85			
44	Lumber and Wood Products,.....	384.39			
ESG 50	Equipment,.....		1,001.58		
52	Production, Construction and Conveying Equipment,.....	988.58			
56	Educational Equipment,.....	13.00			
					3,373.53
EST	TECHNICAL HIGH SCHOOL.				
EST 30	Supplies,.....		329.10		
31	Office Supplies,.....	300.60			
32	Fuel,.....	28.50			
EST 40	Materials,.....		5.80		
42	Metals and Metal Products,.....	5.80			
EST 50	Equipment,.....		38.40		
52	Production, Construction and Conveying Equipment,.....	38.40			
					373.30
ESH	HIGH SCHOOL OF COMMERCE.				
ESH 30	Supplies,.....		215.90		
31	Office Supplies,.....	202.45			
38	Medical Supplies,.....	13.45			
ESH 50	Equipment,.....		368.21		
54	Furniture and Furnishings,.....	70.00			
56	Educational Equipment,.....	298.20			
					584.11
	Forward,.....				$17,579.70

Forward,.....				$17,579.70
Code.				
ESV	VOCATIONAL SCHOOL.			
ESV 40	Materials,.....		$35.00	
44	Lumber and Wood Products,.....	$35.00		
ESV 50	Equipment,.....		353.81	
54	Furniture and Furnishings,.....	228.00		
56	Educational Equipment,.....	125.81		
				388.81
ESEH	EVENING HIGH SCHOOLS.			
ESEH 30	Supplies,.....		24.37	
31	Office Supplies,.....	24.37		
				24.37
ESTR	EVENING SCHOOL OF TRADES.			
ESTR 30	Supplies,.....		53.00	
33	Mechanics', Engineers', etc., Supplies,.....	53.00		
				53.00
WS	STREETS AND ENGINEERING, DEPARTMENT OF:			
WSA	ADMINISTRATION.			
WSA 10	Services Other Than Personal,.....		156.50	
11	Transportation of Persons,.....	10.50		
16	Printing, Engraving, etc.,.....	146.00		
WSA 30	Supplies,.....		6.00	
31	Office Supplies,.....	6.00		
				162.50
WSE	ENGINEERING.			
WSE 30	Supplies,.....		4.80	
31	Office Supplies,.....	4.80		
				4.80
WSS	SEWERS.			
WSS 10	Services Other Than Personal,.....		110.00	
19	Miscellaneous Services,.....	110.00		
				110.00
WSL	STREET LIGHTING.			
WSL 10	Services Other Than Personal,.....		3.00	
19	Miscellaneous Services,.....	3.00		
				3.00
WSY	STABLES AND YARDS.			
WSY 10	Services Other Than Personal,.....		145.25	
14	Care of Animals and Vehicles,.....	15.25		
19	Miscellaneous Services,.....	130.00		
WSY 30	Supplies,.....		24.75	
33	Mechanics', Engineers', etc., Supplies,.....	13.00		
34	Cleaning and Toilet Supplies,.....	1.25		
35	Wearing Apparel,.....	10.50		
WSY 40	Materials,.....		33.75	
42	Metals and Metal Products,.....	33.15		
44	Lumber and Wood Products,.....	.60		
WSY 50	Equipment,.....		60.65	
52	Production, Construction and Conveying Equipment,.....	60.65		
				264.40
Forward,.....				$18,590.49

Forward,.....			$18,590.49
Code.			
PW WIRES, INSPECTOR OF:			
PW 30 Supplies,.....		$5.25	
31 Office Supplies,.....	$5.25		
PW 50 Equipment,.....		3.00	
54 Furniture and Furnishings,.....	3.00		
			8.25
			$18,598.74
SPECIAL ACCOUNTS.			
Mill Street Engine House Repairs,.....		$9,465.56	
Porter Lake,.....		9,113.00	
Stores—Department of Streets and Engineering,.....		10,472.50	
			29,051.06
Total for 1919,.....			$47,649.80
Reserved for Outstanding Orders Previous to 1919.			
Streets and Engineering,.....		$4,337.50	
			4,337.50
Grand Total,.....			$51,987.30

GENERAL FUND SURPLUS.

For Year Ended November 30, 1919.
(Schedule G.)

Debits.		Credits.	
Appropriated in 1919 Budget,	$167,303.70	Surplus, December 1, 1918,	$567,303.70
Reserve for Abatement of Departmental Bills,	17,868.05	Unencumbered Balances of Appropriations, 1918,	872.59
	$185,171.75	Unencumbered Balances of Appropriations, 1919,	89,140.39
Surplus, November 30, 1919,	630,312.68	Excess of Revenues over Estimate,	158,167.75
	$815,484.43		$815,484.43

CITY OF SPRINGFIELD, MASSACHUSETTS.

Cash Receipts and Cash Payments of the City Treasury.
(Exclusive of Sinking Fund.)

For the Year Ended November 30, 1919.

SUMMARY.

Receipts.		Payments.	
General Fund (Schedule H),	$8,395,128.90	General Fund,	$8,552,381.65
Water Fund (Schedule H),	513,297.10	Water Fund,	440,851.84
Capital Fund (Schedule H),	1,467,220.52	Capital Fund,	1,216,880.76
Special and Trust Fund (Schedule H),	38,990.29	Special and Trust Fund,	41,923.36
	$10,414,636.81		$10,252,037.61
Balance on December 1, 1918,	734,536.49	Balance on November 30, 1919,	897,135.69
	$11,149,173.30		$11,149,173.30

CASH RECEIPTS.

(Schedule H.)

GENERAL FUND.

TAXES.			
Year 1919.			
Poll,	$62,426.00		
Personal,	563,888.01		
Real,	2,912,738.58		
		$3,539,052.59	
Year 1918.			
Poll,	$1,590.00		
Personal,	67,699.39		
Real,	787,660.55		
		856,949.94	
Year 1917.			
Poll,	$84.00		
Personal,	298.15		
Real,	42,723.46		
		43,105.61	
Year 1916.			
Personal,	$17.80		
Real,	3.56		
		21.36	
Taxes Paid After Abatement.			
Year 1917,	$8.85		
Year 1918,	12.00		
Year 1919,	2.20		
		23.05	
From the Commonwealth.			
Corporation Tax,	$377,256.38		
Income Tax,	405,601.65		
National Bank Tax,	6,922.90		
		789,780.93	
			$5,228,933.48
FEES.			
Assessors,		$6.70	
City Clerk,		1,635.10	
City Collector,		4,931.76	
License Commissioners,		551.00	
Lockup,		88.80	
Public Sanitary,		1,054.96	
Sealer of Weights and Measures,		1,094.03	
			9,362.35
FINES.			
House of Correction,		$941.50	
Police Court,		11,866.99	
			12,808.49
Forward,			$5,251,104 32

Forward,.....			$5,251,104.32
INTEREST.			
On Bank Balances.			
City Clerk,.....	$38.90		
City Collector,.....	1,426.67		
City Treasurer,.....	10,069.42		
		$11,534.99	
Accrued on Bonds Sold,.....		12,324.58	
On Special Assessments,.....		1,566.99	
On Apportioned Betterments,.....		270.34	
On Taxes,.....		30,077.50	
			55,774.40
LICENSES.			
Alcohol,.....		$43.00	
Auctioneers,.....		68.00	
Bowling Alleys,.....		20.00	
Common Victualers,.....		645.00	
Dance,.....		464.00	
Dead Animal Removal,.....		1.00	
Dog,.....		4,859.54	
Elevator Operators,.....		233.50	
Exhibition,.....		350.00	
Express,.....		452.50	
Farmers,.....		30.75	
Fruit and Vegetable Peddlers,.....		2,250.00	
Innholders,.....		30.00	
Intelligence Offices,.....		22.00	
Liquor,.....		44,845.65	
Manicure and Message,.....		19.00	
Milk,.....		553.00	
Motor Vehicle:			
"Jitney,".....		1,105.00	
"Jitney" Operator,.....		229.00	
Class I—Agents,.....		185.00	
Class II—Used Car Dealers,.....		175.00	
Class III—Junk,.....		35.00	
Pawnbrokers,.....		200.00	
Peddlers,.....		525.00	
Pool Rooms,.....		1,558.00	
Rag Gatherers,.....		459.00	
Second Hand Dealers,.....		170.00	
Street Musicians,.....		1.50	
Sunday Sales,.....		1,000.00	
Sunday Theaters,.....		7,210.00	
Taxicabs,.....		185.00	
Theaters,.....		1,125.00	
			69,049.44
PERMITS.			
Marriage,.....		$1,394.00	
Sewer Entrance,.....		20,526.41	
Signs,.....		234.00	
Street Obstruction,.....		4,380.32	
Street Opening,.....		204.57	
			26,739.30
Forward,.....			$5,402,667.46

Forward,			$5,402,667.46
RENTS.			
Administration Building,		$3,097.80	
Auditorium,		11,669.00	
Municipal Organ,		90.00	
Miscellaneous,		2,668.24	
School Halls,		561.00	
School Property,		1,912.00	
			19,998.04
SPECIAL ASSESSMENTS.			
Betterments—Street,		$13,772.61	
Betterments—Dwight Street Widening,		49,444.31	
Sidewalks and Curbing,		26,252.51	
Street Watering and Oiling,		39,989.28	
			129,458.71
TEMPORARY LOANS,			2,300,000.00
DEPARTMENTAL.			
Army Food Sale,			18,733.15
Army Training School.			
Miscellaneous Sales,		$3,563.82	
Reimbursement by United States Government,		21,216.71	
			24,780.53
Building Department.			
Miscellaneous Sales,			2.58
Charities, Department of.			
Care at Almshouse.			
Reimbursement by Cities and Towns,	$2,288.36		
Reimbursement by Individuals,	3,368.11		
Reimbursement by State,	3,584.89		
		$9,241.36	
Miscellaneous Sales.			
Almshouse Products,	$1,733.68		
Wood,	2,540.05		
Sundry,	30.00		
		4,303.73	
Recovered Expenditures.			
From Cities and Towns,	$3,034.75		
From Individuals,	69.22		
From State,	24,694.19		
Almshouse,	30.75		
		27,828.91	
			41,374.00
City Clerk.			
Miscellaneous Sales,			95.00
Damages to Persons and Property.			
Recovered Expenditures,			30.00
Fire Department.			
Miscellaneous Sales,		$41.25	
Recovered Expenditures,		80.67	
			121.92
Forward,			$7,937,261.39

Forward,.....			$7,937,261.39
Health Department.			
Care at Hospital,.....		$14,099.92	
Miscellaneous Sales,.....		15.00	
Recovered Expenditures,.....		55.90	
			14,170.82
Influenza Hospital.			
Miscellaneous Sales,.....			1,386.70
License Commissioners.			
Recovered Expenditures,.....			334.00
Municipal Market.			
Fees—Automobile Parking,.....		$3.20	
Fees—Farmers,.....		2,121.05	
Sale of Bags and Baskets,.....		1,034.43	
			3,158.68
Miscellaneous.			
Commission on Telephone Calls,.....			107.62
Police Department.			
Miscellaneous Sales,.....		$1,644.20	
Recovered Expenditures,.....		7.77	
Sale of Uniform Cloth,.....		36.61	
			1,688.58
Public Buildings, Department of.			
Municipal Group.			
Miscellaneous Sales,.....		$37.05	
School Buildings.			
Miscellaneous Sales,.....	$606.62		
Recovered Expenditures,.....	56.19		
		662.81	
Sale of Buildings,.....		1,560.00	
			2,259.86
Public Parks, Department of.			
Fees—Bathhouse,.....		$405.00	
Miscellaneous Sales,.....		750.50	
Rent of Equipment,.....		24.75	
Rent of Land,.....		51.00	
			1,231.25
Public Safety, Committee on.			
Miscellaneous Sales,.....		$633.90	
Recovered Expenditures,.....		112.73	
			746.63
Schools, Department of.			
Miscellaneous Sales.			
Graded Schools Lunches,.....	$370.69		
High Schools Lunches,.....	38,959.16		
Sundry,.....	860.47		
Vocational Schools,.....	428.32		
		$40,618.64	
Moving Picture Receipts.....		1,026.60	
Recovered Expenditures.			
Sundry,.....	$7.24		
Vocational School—From Commonwealth,..	10,161.34		
		10,168.58	
Forward,.....			$7,962,345.53

Forward,			$7,962,345.53
Tuition.			
Central High School,	$8,214.00		
Evening High School,	838.50		
Evening School of Trades,	2,438.75		
Evening Vocational School,	604.50		
Graded Schools and Junior High,	7,688.50		
High School of Commerce,	7,422.00		
Technical High School,	13,482.00		
Vocational School,	1,857.00		
		$42,545.25	
			94,359.07
Sealer of Weights and Measures.			
Miscellaneous Sales,			22.46
Soldiers' and Sailors' Benefits.			
Recovered Expenditures.			
Sundry,		$35.00	
Reimbursement by Commonwealth,		41,387.95	
			41,422.95
Streets and Engineering, Department of.			
Miscellaneous Sales.			
Garbage,	$8,005.51		
Land,	500.00		
Sundry,	9,247.47		
		$17,752.98	
Recovered Expenditures.			
Current Year.			
Administration,	$17.18		
Bridges,	36,719.43		
Engineering,	1.27		
Highways,	20,495.55		
Refuse Disposal,	143.48		
Repair Shops,	99.06		
Sewers,	864.88		
Sidewalks and Curbing,	1,280.38		
Stables and Yards,	12.54		
Street Cleaning,	61.87		
Street Oiling,	1,279.01		
		60,974.65	
Prior Year.			
Bridges,	$1.00		
Highways,	123,522.61		
Stables and Yards,	115.11		
		123,638.72	
Rent of Equipment.		745.93	
Services.			
Engineering,	$2.30		
Street Sprinkling,	2,530.40		
		2,532.70	
			205,644.98
Premiums on Bonds,			9,685.00
Forward,			$8,313,479.99

Forward,.....			$8,313,479.99
REFUNDS.			
Departmental.			
Army Training School,.....	$3.97		
Celebrations,.....	31.75		
City Collector,.....	7.00		
Charities, Department of,.....	10.00		
Fire Department,.....	11.18		
Municipal Market,.....	75.00		
Police Department,.....	59.89		
Public Buildings, Department of,.....	435.17		
Public Parks, Department of,.....	1,650.00		
Public Safety, Committee on,.....	1.65		
School Department,.....	196.55		
Sealer of Weights and Measures,.....	6.00		
Streets and Engineering, Department of,....	33,916.97		
		$36,405.13	
Petty Cash Funds.			
Assessors' Department,.....	$25.00		
Charities, Department of,.....	2,000.00		
Health Department,.....	50.00		
High Schools—Lunch Department,.....	950.00		
Law Department,.....	50.00		
License Commission,.....	25.00		
Police Department,.....	600.00		
Public Buildings, Department of,.....	100.00		
Public Safety, Committee on,.....	300.00		
School Department,.....	800.00		
Streets and Engineering, Department of,.....	300.00		
Workmen's Compensation Agent,.....	900.00		
		5,600.00	
			42,005.13
TRANSFER.			
Porter Lake (From Special and Trust Fund),...			39,643.78
Total General Fund,.....			$8,395,128.90
WATER FUND.			
REFUNDS.			
Petty Cash,.....	$500.00		
Sundry,.....	17.00		
		$517.00	
SALE OF MISCELLANEOUS MATERIAL,.....	$49,547.70		
SALE OF WATER,.....	463,232.40		
		512,780.10	
Total Water Fund,.....			$513,297.10
Forward,.....			$8,908,426.00

Forward,.....			$8,908,426.00
CAPITAL FUND.			
REFUNDS,.....		$506.50	
SALE OF BONDS,.....		1,377,000.00	
TRANSFERS (From General Fund).			
Brightwood School Addition,.....	$7,000.00		
Chestnut Street School Addition,.....	1,500.00		
Forest Park School Addition,.....	6,500.00		
Fulton Street Widening,.....	33,936.47		
Homer Street School Addition,.....	23,500.00		
Washington School,.....	9,862.14		
Water Street Widening,.....	7,415.41		
		89,714.02	
Total Capital Fund,.....			$1,467,220.52
SPECIAL AND TRUST FUNDS.			
INTEREST.			
Gurdon Bill Fund,.....	$177.55		
Court Square Extension Fund,.....	1,372.29		
Helen M. Hosley Fund,.....	359.49		
Charles S. Marsh Fund,.....	12.87		
McKinley Monument Fund,.....	25.49		
Sherman D. Porter Fund,.....	842.85		
William H. Smith Fund,.....	25.34		
		$2,815.88	
PRINCIPAL.			
Smith—Hughes Fund,.....		1,174.41	
SALE OF SECURITIES.			
Court Square Extension Fund,.....	$20,000.00		
Helen M. Hosley Fund,.....	4,500.00		
Sherman D. Porter Fund,.....	10,500.00		
		35,000.00	
Total Special and Trust Funds,.....			38,990.29
Total Cash Receipts,.....			$10,414,636.81

ESTIMATED REVENUES.

For the Fiscal Year Ended November 30, 1919.
(Schedule J.)

	Estimate for Year.	Accruals for Year.	Excess over Estimate.
Additional Taxes,	$3,000.00	$2,728.76	$271.24*
Army Training School,	42,000.00	24,767.53	17,232.47*
Business Taxes—From Commonwealth,	300,000.00	356,169.77	56,169.77
Charities,	32,000.00	39,961.06	7,961.06
Education,	80,000.00	98,092.02	18,092.02
Fire Department,	500.00	136.54	363.46*
Health Department,	17,000.00	20,728.15	3,728.15
Income Tax Reimbursement,	400,000.00	405,601.65	5,601.65
Fees,	6,700.00	9,324.08	2,624.08
Fines,	13,000.00	12,808.49	191.51*
Interest,	40,000.00	48,656.51	8,656.51
Licenses,	48,000.00	69,309.14	21,309.14
Permits,	15,200.00	26,862.30	11,662.30
Police Department,	1,500.00	1,661.60	161.60
Privileges—Excise Tax—Street Railway,	20,000.00	15,196.98	4,803.02*
Department of Public Buildings,	800.00	2,888.05	2,088.05
Recreation,	2,000.00	1,231.25	768.75*
Rents,	15,500.00	23,833.56	8,333.56
Soldiers' and Sailors' Benefits,	38,000.00	41,422.95	3,422.95
Special Assessments,	75,000.00	97,240.19	22,240.19
Department of Streets and Engineering,	98,000.00	107,450.57	9,450.57
Miscellaneous,	10,800.00	11,096.60	296.60
	$1,259,000.00	$1,417,167.75	$158,167.75

*Under Estimate.

OPERATING STATEMENT.

Year Ended November 30, 1919.

GENERAL FUND.			
Revenues Accrued:			
Taxes,	$4,460,043.90		
Special Assessments,	679,358.19		
Miscellaneous Sales,	54,930.49		
Miscellaneous Sources,	1,173,083.90		
Recovered Expenditures,	128,125.46		
		$6,495,541.94	
Expense Incurred (Schedule K),		5,605,450.38	
Excess—Revenue over Expense,			$890,091.56
WATER FUND.			
Revenues Accrued:			
Water Rates,	$443,602.97		
Miscellaneous Sales,	82,499.68		
		$526,102.65	
Expense Incurred (Schedule L),		324,453.00	
Excess—Revenue over Expense,			$201,649.65

EXPENSE INCURRED IN YEAR ENDED NOVEMBER 30, 1919.

GENERAL FUND.

(Schedule K.)

Department.		
Administration of Trust Funds,	(Schedule 1)	$425.00
Army Food Purchase and Sale,	(Schedule 2)	762.19*
Assessors,	(Schedule 3)	27,874.60
Building Commissioner,	(Schedule 4)	22,815.89
Celebrations,	(Schedule 5)	15,405.41
Charities, Department of,	(Schedule 6)	132,945.88
City Auditor,	(Schedule 7)	12,859.09
City Clerk,	(Schedule 8)	13,493.90
City Collector,	(Schedule 9)	23,684.56
City Council,	(Schedule 10)	3,105.98
City Treasurer,	(Schedule 11)	14,376.90
Damages to Persons and Property,	(Schedule 12)	3,605.23
Fire Department,	(Schedule 13)	487,614.83
Fish Warden,	(Schedule 14)	25.00
Forest Warden,	(Schedule 15)	100.00
Health Department,	(Schedule 16)	90,715.11
Influenza Hospital,	(Schedule 17)	13,498.24
Land Damages,	(Schedule 18)	1,532.00
Law Department,	(Schedule 19)	7,889.92
License Commissioners, Board of,	(Schedule 20)	1,144.56
Mayor,	(Schedule 21)	8,120.85
Military Relief Commission,	(Schedule 22)	21,000.00
Municipal Debt:	(Schedule 23)	
City Debt Serials,		339,000.00
City Sinking Funds,		33,700.00
Interest, City Debt,		308,853.75
Interest, Trust Funds,		457.25
Interest, Temporary Loans,		62,115.10
Municipal Market Committee,	(Schedule 24)	3,465.84
Old Toll Bridge Repairs,	(Schedule 25)	46,201.97
Forward,		$1,695,264.67

Department.		
Forward,		$1,695,264.67
Police Department,	(Schedule 26)	337,818.12
Porter Lake,	(Schedule 27)	32,417.95
Premium on Bonds,	(Schedule 28)	1,142.10
Printing, Committee on,	(Schedule 29)	4,327.09
Public Buildings, Department of,	(Schedule 30)	300,447.25
Public Library,	(Schedule 31)	95,059.54
Public Parks, Department of,	(Schedule 32)	159,288.09
Public Safety, Committee on,	(Schedule 33)	3,810.65
Public Works, Board of,	(Schedule 34)	1,780.95
Refunds,	(Schedule 35)	13,585.89
Registrars of Voters, Board of,	(Schedule 36)	17,020.56
Revision of Ordinances,	(Schedule 37)	179.53
Revenues Receivable, Abatement of,	(Schedule 38)	17,868.05
School Department,	(Schedule 39)	1,209,683.44
Smoke Inspection,	(Schedule 40)	321.47
Soldiers' Relief Commissioner,	(Schedule 41)	19,017.64
Soldiers' and Sailors' Graves, Care of,	(Schedule 42)	836.22
Streets and Engineering, Department of,	(Schedule 43)	999,433.58
Taxes:	(Schedule 44)	
County Tax,		185,963.20
National Bank Tax,		21,748.41
State Tax,		476,660.80
Tax Exemptions,	(Schedule 45)	1,152.47
United States Army Training School,	(Schedule 46)	508.83
Van Horn Park,	(Schedule 47)	1,272.55
Weights and Measures, Sealer of,	(Schedule 48)	5,880.92
Wires, Inspection of,	(Schedule 49)	1,309.92
Workmen's Compensation,	(Schedule 50)	1,700.49
Total,		$5,605,450.38

* Excess of receipts over expense.

DEPARTMENTAL EXPENSE SCHEDULES.

(Supporting Schedule K.)

ADMINISTRATION OF TRUST FUNDS (Schedule 1).			
Salary of Treasurer,		$300.00	
Salary of Clerk,		100.00	
Box Rent,		25.00	
			$425.00
ARMY FOOD PURCHASE AND SALE (Schedule 2).			
Salaries and Wages,		$205.00	
Supplies,		17,126.49	
Printing, Binding, etc.,		11.16	
Transportation Service,		624.76	
Miscellaneous Supplies and Expenses,		3.55	
			$17,970.96
Less Transfers and Refunds,			18,733.15
			*$762.19
ASSESSORS (Schedule 3).			
Administration.			
Salaries of Assessors and Assistant Assessors,		$10,576.89	
Salaries and Wages, Other Employees,		12,727.27	
Stationery and Office Supplies,		186.46	
Printing, Binding, etc.,		3,512.09	
Advertising,		13.91	
Communication Service,		518.85	
Transportation Service,		141.18	
Corporation and Special Work,		197.95	
			$27,874.60
BUILDING COMMISSIONER (Schedule 4).			
Administration.			
Salaries, Building Commissioner, and Board of Appeal,		$3,774.96	
Salaries and Wages, Other Employees,		1,024.98	
Stationery and Office Supplies,		70.07	
Printing, Binding, etc.,		241.85	
Communication Service,		75.00	
Transportation Service,		255.11	
Miscellaneous Supplies and Expenses,		52.70	
Traveling Expenses,		73.65	
			$5,568.32
Operation.			
Salaries of Inspectors,		$15,889.36	
Automobile Service.			
Operating Supplies,	$535.54		
Repairs and Replacements,	762.22		
Other Expenses,	40.00		
		1,337.76	
Supplies, Not Otherwise Provided for,		20.45	
			17,247.57
			$22,815.89

*Excess of receipts over expense.

Celebrations (Schedule 5).			
Cardinal Mercier's Reception,.....		$260.04	
Christmas Observances,.....		500.00	
Citizens' Committee to Welcome Soldiers,.....		4,687.85	
Independence Day Observances,.....		8,609.43	
Memorial Day Observances,.....		1,025.00	
Roosevelt Day Observances,.....		323.09	
			$15,405.41
Charities, Department of (Schedule 6).			
General Administration.			
Salaries, Agent and Physician,.....		$6,025.00	
Salaries and Wages, Other Employees,.....		4,568.54	
Stationery and Office Supplies,.....		49.94	
Printing, Binding, etc.,.....		191.77	
Communication Service,.....		203.18	
Transportation Service,.....		51.94	
Miscellaneous Supplies and Expenses,.....		26.99	
Automobile,.....		544.48	
			$11,661.84
Almshouse.			
Administration.			
Salaries,.....	$18,775.39		
Stationery and Office Supplies,.....	61.18		
Advertising, Subscriptions, etc.,.....	41.68		
Communication Service,.....	48.17		
Transportation Service,.....	54.65		
Miscellaneous Supplies and Expenses,.....	37.80		
Light,.....	141.58		
Medical Attendance,.....	61.00		
		$19,221.45	
Operation.			
Care of Inmates.			
Medical Supplies,.....	$2,923.82		
Clothing, Dry Goods, etc.,.....	2,997.05		
Provisions,.....	13,578.62		
Cleaning, Toilet and Janitor Supplies,...	649.49		
Laundry Supplies,.....	647.34		
		$20,795.82	
Farm and Dairy.			
Supplies, Hay and Grain,.....	$3,274.18		
Materials,.....	526.51		
Fuel,.....	11,691.45		
Mechanical and Electrical Supplies,.....	462.82		
Other Supplies,.....	10.00		
		15,964.96	
Maintenance and Repairs.			
Equipment.			
Farm and Dairy,.....	$259.58		
Furniture and Household,.....	357.57		
Heating, Lighting and Plumbing,.....	1,350.36		
Buildings,.....	251.80		
Care of Animals,.....	554.13		
		2,773.44	
Forward,.....		$58,755.67	$11,661.84

Forward,.....		$58,755.67	$11,661.84
Replacements.			
Equipment.			
Farm and Dairy,.....	$487.82		
Furniture and Household,.....	845.13		
Heating Plant and Electrical Equipment,.	62.13		
		1,395.08	
Remodeling Heating Plant, Isolation Hospital,.	$1,090.00		
Sidewalk,.....	800.00		
		1,890.00	
			62,040.75
Division of Relief.			
Care of Persons in Institutions,.....		$5,126.82	
Contributions to Persons,.....		21,480.89	
Payments to Cities and Towns,.....		2,300.52	
Transportation,.....		1,045.99	
Burials,.....		489.50	
Moving Household Furniture,.....		369.73	
Supplies Furnished.			
Fuel,.....	$3,003.21		
Provisions,.....	24,449.09		
Medicines,.....	1,245.72		
Clothing,.....	3,091.60		
Other Expenses,.....	106.09		
		31,895.71	
			62,709.16
Wayfarers' Lodge.			
Operation.			
Salaries and Wages,.....	$1,600.50		
Supplies,.....	3,025.61		
Other Miscellaneous Expenses and Supplies,	218.40		
		$4,844.51	
			4,844.51
			$141,256.26
Less Transfers and Refunds,.....			8,310.38
			$132,945.88

CITY AUDITOR (Schedule 7).

Administration.		
Salary of City Auditor,.....	$3,474.96	
Salaries and Wages, Other Employees,.....	8,804.31	
Stationery and Office Supplies,.....	186.05	
Printing, Binding, etc.,.....	221.03	
Communication Service,.....	45.77	
Transportation Service,.....	20.40	
Other Miscellaneous Expenses and Supplies,...	104.57	
Advertising,.....	2.00	
		$12,859.09

City Clerk (Schedule 8).		
Administration.		
Salary of City Clerk,	$3,274.95	
Salaries and Wages, Other Employees,	7,010.98	
Stationery and Office Supplies,	128.53	
Printing, Binding, etc.,	370.11	
Advertising,	1.50	
Communication Service,	147.71	
Transportation Service,	.32	
Other Miscellaneous Expenses and Supplies,	349.10	
Preparation of Vital Statistics,	2,210.70	
		$13,493.90
City Collector (Schedule 9).		
Administration.		
Salary of City Collector,	$3,474.96	
Salaries and Wages, Other Employees,	14,397.33	
Stationery and Office Supplies,	275.07	
Printing, Binding, etc.,	557.41	
Advertising,	658.86	
Communication Service,	3,509.02	
Transportation Service,	78.42	
Fees, Commissions and Premiums,	17.20	
Other Miscellaneous Expenses and Supplies,	716.29	
		$23,684.56
City Council (Schedule 10).		
Administration.		
Salaries and Wages,	$2,308.27	
Stationery and Office Supplies,	20.18	
Printing, Binding, etc.,	204.31	
Advertising,	349.10	
Communication Service,	116.98	
Fees,	53.74	
Miscellaneous Expenses and Supplies,	53.40	
		$3,105.98
City Treasurer (Schedule 11).		
Administration.		
Salary of City Treasurer,	$3,774.96	
Salaries and Wages, Other Employees,	9,046.14	
Stationery and Office Supplies,	187.45	
Printing, Binding, etc.,	255.09	
Communication Service,	290.32	
Transportation Service,	.32	
Fees, Commissions and Premiums,	523.10	
Other Miscellaneous Expenses and Supplies,	180.42	
Traveling Expense,	72.35	
Office Equipment—Replacement,	96.75	
		$14,376.90
Damages to Persons and Property (Schedule 12).		
Property,	$369.04	
Personal,	3,236.19	
		$3,605.23

FIRE DEPARTMENT (Schedule 13).

General Administration.			
Salaries, Chief, Deputy Chief and District Chiefs,		$15,035.68	
Salaries and Wages, Other Employees,		2,223.00	
Stationery and Office Supplies,		140.57	
Printing, Binding, etc.,		70.86	
Communication Service,		7.17	
Transportation Service,		166.89	
Miscellaneous Expenses and Supplies,		23.50	
Pensions,		3,940.36	
			$21,607.98
Fire Protection.			
Station No. 1, Court Street.			
Salaries,	$39,110.69		
Supplies,	113.30		
Laundry,	64.86		
Light,	194.04		
Heat,	1,829.54		
Oil and Gasoline,	326.20		
Replacements,	22.00		
Miscellaneous Supplies and Expenses,	69.73		
		$41,730.36	
Station No. 2, North Street.			
Salaries,	$24,541.34		
Supplies,	22.24		
Laundry,	57.99		
Light,	197.88		
Heat,	1,891.19		
Oil and Gasoline,	445.42		
Replacements,	11.28		
Miscellaneous Supplies and Expenses,	52.61		
		26,719.95	
Station No. 3, Oakland Street.			
Salaries,	$37,565.61		
Supplies,	29.72		
Laundry,	65.26		
Light,	89.25		
Heat,	595.29		
Oil and Gasoline,	112.21		
Replacements,	3.05		
Miscellaneous Supplies and Expenses,	99.44		
		38,559.83	
Station No. 4, Walnut Street.			
Salaries,	$39,212.11		
Supplies,	45.53		
Laundry,	67.36		
Light,	59.99		
Heat,	981.36		
Oil and Gasoline,	344.25		
Replacements,	90.11		
Miscellaneous Supplies and Expenses,	12.80		
		40,813.51	
Forward,		$147,823.65	$21,607.98

Forward,.....		$147,823.65	$21,607.98
Station No. 5, Indian Orchard.			
Salaries,.....	$32,433.67		
Supplies,.....	51.86		
Laundry,.....	81.09		
Light,.....	77.28		
Heat,.....	1,059.42		
Oil and Gasoline,.....	158.10		
Miscellaneous Supplies and Expenses,.....	13.90		
		33,875.32	
Station No. 6, Mill Street.			
Salaries,.....	$34,173.85		
Supplies,.....	68.10		
Laundry,.....	121.22		
Light,.....	73.64		
Heat,.....	367.57		
Miscellaneous Supplies and Expenses,.....	7.34		
		34,811.72	
Station No. 7, Chestnut Street.			
Salaries,.....	$35,904.18		
Supplies,.....	50.87		
Laundry,.....	44.45		
Light,.....	66.29		
Heat,.....	617.79		
Oil and Gasoline,.....	186.43		
Replacements,.....	15.41		
Miscellaneous Supplies and Expenses,.....	42.74		
		36,878.16	
Station No. 8, Winchester Park.			
Salaries,.....	$41,001.96		
Supplies,.....	91.08		
Laundry,.....	74.54		
Light,.....	103.54		
Heat,.....	1,056.39		
Oil and Gasoline,.....	361.78		
Miscellaneous Supplies and Expenses,.....	80.78		
		42,770.07	
Station No. 9, Armory Street.			
Salaries,.....	$17,293.16		
Supplies,.....	75.27		
Laundry,.....	41.99		
Light,.....	27.86		
Heat,.....	597.44		
Miscellaneous Supplies and Expenses,.....	6.30		
		18,042.02	
Station No. 10, North Main Street.			
Salaries,.....	$36,924.65		
Supplies,.....	45.62		
Laundry,.....	83.05		
Light,.....	180.10		
Heat,.....	1,032.49		
Oil and Gasoline,.....	137.70		
Miscellaneous Supplies and Expenses,.....	17.57		
		38,421.18	
Forward,.....		$352,622.12	$21,607.98

Forward,.....		$352,622.12	$21,607.98
Station No. 11, Plainfield Street.			
Salaries,.....	$16,099.71		
Supplies,.....	12.96		
Laundry,.....	29.21		
Light,.....	29.47		
Heat,.....	512.29		
Miscellaneous Supplies and Expenses,.....	15.82		
		16,699.46	
Station No. 12, Margaret Street.			
Salaries,.....	$15,791.80		
Supplies,.....	12.56		
Laundry,.....	25.75		
Light,.....	25.48		
Heat,.....	433.80		
Oil and Gasoline,.....	87.99		
Miscellaneous Supplies and Expenses,.....	6.80		
		16,383.18	
Station No. 13, Pine Street.			
Salaries,.....	$35,538.60		
Supplies,.....	34.33		
Laundry,.....	54.68		
Light,.....	93.44		
Heat,.....	915.17		
Oil and Gasoline,.....	154.73		
Miscellaneous Supplies and Expenses,.....	54.00		
		36,844.95	
			422,549.71
Fire Alarm Telegraph Bureau.			
Salary, Superintendent,.....		$1,750.00	
Salaries and Wages, Permanent Employees,..		11,604.69	
Pensions,.....		725.00	
Repairs and Replacements,.....		6,030.57	
Operating Expense,.....		243.62	
			20,353.88
Maintenance and Repairs.			
Apparatus.			
Station No. 1, Court Street,.....		$2,684.51	
Station No. 2, North Street,.....		1,386.55	
Station No. 3, Oakland Street,.....		26.59	
Station No. 4, Walnut Street,.....		1,117.26	
Station No. 5, Indian Orchard,.....		503.76	
Station No. 7, Chestnut Street,.....		60.72	
Station No. 8, Winchester Park,.....		1,454.77	
Station No. 9, Armory Street,.....		450.89	
Station No. 10, North Main Street,.....		120.94	
Station No. 11, Plainfield Street,.....		155.40	
Station No. 12, Margaret Street,.....		247.84	
Station No. 13, Pine Street,.....		591.83	
Undistributed,.....		1,411.10	
			10,212.16
Forward,.....			$474,723.73

Forward,.....			$474,723.73
Buildings and Grounds.			
Station No. 1, Court Street,.....		$354.47	
Station No. 2, North Street,.....		182.54	
Station No. 3, Oakland Street,.....		261.73	
Station No. 4, Walnut Street,.....		123.82	
Station No. 5, Indian Orchard,.....		74.62	
Station No. 6, Mill Street,.....		1,894.45	
Station No. 7, Chestnut Street,.....		110.32	
Station No. 8, Winchester Park,.....		262.07	
Station No. 9, Armory Street,.....		162.57	
Station No. 10, North Main Street,.....		364.46	
Station No. 11, Plainfield Street,.....		213.02	
Station No. 12, Margaret Street,.....		141.50	
Station No. 13, Pine Street,.....		131.97	
			4,277.54
Undistributed.			
Supplies,.....		$1,147.13	
Telephone,.....		816.41	
Clothing,.....		1,642.20	
Oil and Gasoline,.....		171.31	
Replacements,.....		4,808.50	
Miscellaneous Supplies and Expenses,.....		28.01	
			8,613.56
			$487,614.83
FISH WARDEN (Schedule 14).			
Salary of Fish Warden,.....			$25.00
FOREST WARDEN (Schedule 15).			
Salary of Forest Warden,.....			$100.00
HEALTH DEPARTMENT (Schedule 16).			
Division of Inspection.			
Administration.			
Salary, Agent,.....	$2,274.96		
Salaries and Wages, Other Employees,.....	4,072.84		
Stationery and Office Supplies,.....	216.17		
Printing, Binding, etc.,.....	242.08		
Communication Service,.....	290.99		
Transportation Service,.....	31.03		
Traveling Expenses,.....	53.77		
Miscellaneous Supplies and Expenses,.....	223.76		
		$7,405.10	
Operation.			
Sanitary Inspection.			
Salaries, Inspectors,.....	$9,535.58		
Other Expenses,.....	537.98		
		10,073.56	
Forward,.....		$17,478.66	

Forward,.....		$17,478.66	
Medical Inspection of School Children.			
Salaries, Inspectors and Nurses,.....	$11,258.18		
Supplies,.....	154.82		
Other Expenses,.....	414.68		
		11,827.68	
Milk and Dairy Inspection.			
Salaries, Inspectors,.....	$3,399.90		
Other Expenses,.....	796.28		
		4,196.18	
Food Inspection.			
Salaries, Inspectors,.....		1,500.00	
Laboratory Service.			
Salaries and Wages,.....	$2,249.97		
Laboratory Supplies,.....	97.16		
Other Expenses,.....	1,114.21		
		3,461.34	
Operating Supplies Not Chargeable Elsewhere.			
Disinfectants,.....		190.74	
Tuberculosis Dispensary.			
Salaries,.....	$1,383.26		
Supplies,.....	40.66		
Other Expenses,.....	749.73		
		2,173.65	
Dental Clinic.			
Salaries,.....	$2,072.08		
Supplies,.....	308.34		
Other Expenses,.....	189.62		
		2,570.04	
			$43,398.29
Division of Hospitals.			
Administration.			
Salary, Matron,.....	$1,158.31		
Stationery and Office Supplies,.....	33.55		
Printing, Binding, etc.,.....	23.14		
Communication Service,.....	12.51		
Transportation Service,.....	370.88		
Heat, Light and Power,.....	7,792.03		
Miscellaneous Supplies and Expenses,.....	23.25		
		$9,413.67	
Operation.			
Professional Care of Patients.			
Salaries and Wages,.....	$10,510.25		
Medical and Surgical Supplies,.....	1,548.81		
Other Expenses,.....	1,697.50		
		13,756.56	
Feeding Patients and Employees.			
Salaries and Wages,.....	$1,050.00		
Provisions,.....	12,873.00		
		13,923.00	
Forward,.....		$37,093.23	$43,398.29

Forward,.....		$37,093.23	$43,398.29
Housekeeping.			
Household Supplies,.....	$906.20		
Other Expenses,.....	129.60		
		1,035.80	
Laundry Service.			
Other Expenses,.....		1,610.67	
Supplies Not Chargeable Elsewhere.			
Fuel,.....	$453.85		
Disinfectants,.....	137.41		
		591.26	
Maintenance and Repairs.			
Hospital Equipment.			
Household,.....	$35.00		
Other,.....	38.64		
		73.64	
Building Equipment.			
Lighting System,.....	$9.80		
Plumbing System,.....	50.39		
		60.19	
Buildings and Real Property.			
Buildings,.....	$317.27		
Grounds,.....	19.41		
		336.68	
Replacements.			
Hospital Equipment, Household,.....		363.48	
Payments To Other Institutions.			
Payments to Hospitals,.....		6,151.87	
			47,316.82
			$90,715.11
INFLUENZA HOSPITAL (Schedule 17).			
Construction,.....		$7,683.71	
Equipment,.....		2,169.55	
Operating Expenses,.....		3,644.98	
			$13,498.24
LAND DAMAGES (Schedule 18),.....			$1,532.00
LAW DEPARTMENT (Schedule 19).			
Administration.			
Salary of City Solicitor,.....		$3,833.28	
Salary of Assistant City Solicitor,.....		1,799.93	
Salaries and Wages, Other Employees,.....		1,158.31	
Stationery and Office Supplies,.....		62.90	
Printing, Binding, etc.,.....		34.61	
Communication Service,.....		52.39	
Transportation Service,.....		113.98	
Fees, Commissions and Premiums,.....		619.49	
Miscellaneous Supplies and Expenses,.....		179.03	
Vacations and Other Lost Time,.....		36.00	
			$7,889.92

LICENSE COMMISSIONERS, BOARD OF (Schedule 20).			
Administration.			
Salaries and Wages, Chairman and Clerk,		$792.76	
Printing, Binding, etc.,		351.80	
			$1,144.56
MAYOR (Schedule 21).			
Administration.			
Salary of Mayor,		$4,000.00	
Salaries and Wages, Other Employees,		1,324.95	
Stationery and Office Supplies,		29.03	
Printing, Binding, etc.,		122.25	
Communication Service,		83.31	
Entertainments,		106.58	
Traveling Expenses,		66.55	
Miscellaneous Supplies and Expenses,		32.00	
Vacations and Other Lost Time,		36.00	
			$5,800.67
Operation.			
Automobile Service.			
Salary, Chauffeur,		$378.24	
Repairs and Replacements,		1,941.94	
			2,320.18
			$8,120.85
MILITARY RELIEF COMMISSION (Schedule 22).			
Miscellaneous Supplies and Expenses,			$21,000.00
MUNICIPAL DEBT (Schedule 23).			
Principal.			
City Debt Serials,			$339,000.00
Interest.			
City Debt,		$308,853.75	
Temporary Loans,		62,115.10	
Trust Funds,		457.25	
			371,426.10
Sinking Fund.			
City Debt,			33,700.00
			$744,126.10
MUNICIPAL MARKET COMMITTEE (Schedule 24).			
Salaries.			
Market Master,	$412.50		
Produce Man,	75.00		
Labor at Indian Orchard Market,	88.00		
		$575.50	
Advertising,		93.60	
Rent,		1,800.00	
Baskets, Bags, etc. (sold),		896.47	
Tables,		72.63	
Miscellaneous Operating Expenses,		27.64	
			$3,465.84

OLD TOLL BRIDGE REPAIRS (Schedule 25).			
Labor and Material,.....			$46,201.97
POLICE DEPARTMENT (Schedule 26).			
Administration.			
Administration Salaries,.....		$14,685.64	
Stationery and Office Supplies,.....		792.73	
Printing, Binding, etc.,.....		823.49	
Advertising,.....		86.51	
Communication Service,.....		2,258.21	
Transportation Service,.....		1,321.41	
Fees, Commissions, and Premiums,.....		367.16	
Miscellaneous Supplies and Expenses,.....		2,518.45	
Traveling Expenses, Outside City,.....		534.61	
Heat, Light and Power,.....		4,265.87	
Rents and Privileges,.....		13.00	
Pensions,.....		10,177.02	
Vacations and Other Lost Time,.....		11,836.39	
			$49,680.49
Operation.			
Policing the City.			
Salaries, Officers and Patrolmen,.....		$228,319.29	
Detection of Crime.			
Salaries,.....	$22,944.26		
Bertillon Supplies,.....	72.78		
		23,017.04	
Police Patrol Service.			
Salaries, Chauffeur Officers,.....	$9,480.95		
Expenses,.....	300.00		
		9,780.95	
Motor Vehicle Service.			
Operating Supplies,.....	$5,275.18		
Repairs and Replacements,.....	2,042.71		
		7,317.89	
Police Court.			
Salary, Prosecuting Attorney,.....	$1,795.56		
Salary, Officers Detailed,.....	3,258.05		
		5,053.61	
Detention and Care of Prisoners.			
Salaries and Wages,.....	$9,841.52		
Provisions,.....	724.19		
Other Expenses,.....	224.43		
		10,790.14	
Police Signal System.			
Salaries and Wages,.....	$525.00		
Supplies,.....	503.81		
Repairs and Replacements,.....	165.70		
Other Expenses,.....	5.10		
		1,199.61	
Forward,.....		$285,478.53	$49,680.49

Forward,.....		$285,478.53	$49,680.49
Supplies Used Generally.			
Mechanics' and Engineers',.....	$37.01		
Cleaning, Toilet and Janitors',.....	869.94		
Wearing Apparel,.....	538.74		
Medical,.....	88.10		
Other,.....	480.67		
		2,014.46	
Maintenance and Repairs.			
Bicycles and Accessories,.....	$283.30		
Small and Side Arms,.....	7.26		
Office Furniture and Equipment,.....	99.04		
		389.60	
Buildings and Grounds.			
Central Station,.....		177.36	
Replacements.			
Motor Vehicles,.....		77.68	
			288,137.63
			$337,818.12

PORTER LAKE (Schedule 27).

Labor and Material,.....	$32,417.95

PREMIUM ON BONDS (Schedule 28).

Miscellaneous Expenses,.....	$1,142.10

PRINTING, COMMITTEE ON (Schedule 29).

Administration.		
Salaries and Wages,.....	$750.00	
Stationery and Office Supplies,.....	127.90	
Printing, Binding, etc.,.....	3,096.80	
Advertising,.....	3.55	
Miscellaneous Supplies and Expenses,.....	348.84	
		$4,327.09

PUBLIC BUILDINGS, DEPARTMENT OF (Schedule 30).

General Administration.		
Salary, Schoolhouse Agent,.....	$2,867.15	
Salaries and Wages, Other Employees,.....	3,525.34	
Stationery and Office Supplies,.....	79.86	
Printing, Binding, etc.,.....	87.39	
Advertising,.....	27.22	
Communication Service,.....	147.96	
Transportation Service,.....	36.38	
Miscellaneous Supplies and Expenses,.....	5.05	
		$6,776.35
Forward,.....		$6,776.35

Forward,.....			$6,776.35
Operation.			
Transportation Service,.....		$134.12	
Fees, Commissions and Premiums,.....		14.00	
Pensions,.....		224 10	
Salaries, Chauffeurs, Vehicles,.....		1,594.38	
Operating Supplies, Vehicles,.....		874.65	
Other Expenses,.....		240.77	
			3,082.02
Maintenance.			
Transportation Service,.....		$184.35	
Vacations and Other Lost Time,.....		735.44	
			919.79
			$10,778.16
Schoolhouse Property.			
Acushnet Avenue.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,.....	$1,698.53		
Fuel, Light and Power,.....	1,356.77		
Janitors' Supplies,.....	43.75		
Miscellaneous Supplies and Expenses,....	43.77		
		$3,142.82	
Maintenance and Repairs.			
Furniture and Fixtures,.....	$74.27		
Electrical Equipment,.....	83.84		
Heating, Plumbing and Ventilating,.....	87.96		
Building and Grounds,.....	335.80		
		581.87	
Alden Street.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,.....	$1,016.60		
Fuel, Light and Power,.....	568.91		
Janitors' Supplies,.....	7.76		
Miscellaneous Supplies and Expenses,....	13.33		
		1,606.60	
Maintenance and Repairs.			
Furniture and Fixtures,.....	$24.42		
Electrical Equipment,.....	32.80		
Heating, Plumbing and Ventilating,.....	5.60		
Building and Grounds,.....	119.06		
		181.88	
Armory Street.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,.....	$2,718.95		
Fuel, Light and Power,.....	2,418.04		
Janitors' Supplies,.....	104.20		
Miscellaneous Supplies and Expenses,....	140.12		
		5,381.31	
Forward,.....		$10,894.48	$10,778.16

Forward,.....		$10,894.48	$10,778.16
Maintenance and Repairs.			
Furniture and Fixtures,.....	$52.09		
Electrical Equipment,.....	56.07		
Heating, Plumbing and Ventilating,.....	48.34		
Building and Grounds,.....	558.12		
		714.62	
Barrows.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,.....	$1,591.60		
Fuel, Light and Power,.....	1,333.31		
Janitors' Supplies,.....	42.29		
Miscellaneous Supplies and Expenses,....	17.44		
		2,984.64	
Maintenance and Repairs.			
Furniture and Fixtures,.....	$45.84		
Electrical Equipment,.....	28.50		
Heating, Plumbing and Ventilating,.....	202.41		
Building and Grounds,.....	167.61		
		444.36	
Boston Road.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,.....	$1,016.60		
Fuel, Light and Power,.....	449.29		
Janitors' Supplies,.....	6.62		
Miscellaneous Supplies and Expenses,....	2.45		
		1,474.96	
Maintenance and Repairs.			
Furniture and Fixtures,.....	$12.55		
Electrical Equipment,.....	20.20		
Heating, Plumbing and Ventilating,.....	126.42		
Building and Grounds,.....	120.59		
		279.76	
Brightwood.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,.....	$2,407.19		
Fuel, Light and Power,.....	449.56		
Janitors' Supplies,.....	57.11		
Miscellaneous Supplies and Expenses,....	65.18		
		2,979.04	
Maintenance and Repairs.			
Furniture and Fixtures,.....	$60.16		
Electrical Equipment,.....	102.73		
Heating, Plumbing and Ventilating,.....	185.67		
Building and Grounds,.....	397.58		
		746.14	
Forward,.....		$20,518.00	$10,778.16

Forward,		$20,518.00	$10,778.16
Buckingham.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,	$4,020.64		
Fuel, Light and Power,	3,384.09		
Janitors' Supplies,	149.01		
Miscellaneous Supplies and Expenses,	74.12		
		7,627.86	
Maintenance and Repairs.			
Furniture and Fixtures,	$49.15		
Electrical Equipment,	102.50		
Heating, Plumbing and Ventilating,	277.11		
Building and Grounds,	801.16		
		1,229.92	
Carew Street.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,	$1,831.85		
Fuel, Light and Power,	1,026.08		
Janitors' Supplies,	55.82		
Miscellaneous Supplies and Expenses,	44.13		
		2,957.33	
Maintenance and Repairs.			
Furniture and Fixtures,	$44.93		
Electrical Equipment,	23.20		
Heating, Plumbing and Ventilating,	188.34		
Building and Grounds,	562.66		
		819.13	
Central Street.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,	$2,556.72		
Fuel, Light and Power,	1,723.36		
Janitors' Supplies,	45.57		
Miscellaneous Supplies and Expenses,	78.35		
		4,404.00	
Maintenance and Repairs.			
Furniture and Fixtures,	$30.80		
Electrical Equipment,	50.35		
Heating, Plumbing and Ventilating,	205.41		
Building and Grounds,	836.85		
		1,123.41	
374 Central Street.			
Care and Operation.			
Insurance,	$40.00		
Fuel, Light and Power,	297.12		
		337.12	
Forward,		$39,016.77	$10,778.16

Forward,.....		$39,016.77	$10,778.16
Maintenance and Repairs.			
Furniture and Fixtures,.....	$14.90		
Electrical Equipment,.....	4.96		
Heating, Plumbing and Ventilating,.....	37.01		
Building and Grounds,.....	284.07		
		340.94	
Charles Street.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,.....	$1,016.60		
Fuel, Light and Power,.....	373.43		
Janitors' Supplies,.....	15.88		
Miscellaneous Supplies and Expenses,....	20.62		
		1,426.53	
Maintenance and Repairs.			
Furniture and Fixtures,.....	$37.11		
Electrical Equipment,.....	17.89		
Heating, Plumbing and Ventilating,.....	115.48		
Building and Grounds,.....	23.18		
		193.66	
Chestnut Street.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,.....	$6,432.40		
Fuel, Light and Power,.....	4,214.09		
Janitors' Supplies,.....	180.46		
Miscellaneous Supplies and Expenses,....	106.86		
		10,933.81	
Maintenance and Repairs.			
Furniture and Fixtures,.....	$58.13		
Electrical Equipment,.....	191.78		
Heating, Plumbing and Ventilating,.....	489.43		
Building and Grounds,.....	1,203.34		
		1,942.68	
Dry Bridge.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,.....	$634.40		
Fuel, Light and Power,.....	226.26		
Janitors' Supplies,.....	6.66		
Miscellaneous Supplies and Expenses,....	52.74		
		920.05	
Maintenance and Repairs.			
Heating, Plumbing and Ventilating,.....	$10.65		
Building and Grounds,.....	55.69		
		66.34	
Forward,.....		$54,840.78	$10,778.16

Forward,		$54,840.78	$10,778.16
Eastern Avenue.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,	$1,341.05		
Fuel, Light and Power,	873.50		
Janitors' Supplies,	52.60		
Miscellaneous Supplies and Expenses,	44.01		
		2,311.16	
Maintenance and Repairs.			
Furniture and Fixtures,	$28.82		
Electrical Equipment,	6.25		
Heating, Plumbing and Ventilating,	117.41		
Building and Grounds,	41.58		
		194.06	
East Union Street.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,	$1,425.80		
Fuel, Light and Power,	985.50		
Janitors' Supplies,	41.28		
Miscellaneous Supplies and Expenses,	14.24		
		2,466.82	
Maintenance and Repairs.			
Furniture and Fixtures,	$92.88		
Electrical Equipment,	47.49		
Heating, Plumbing and Ventilating,	132.12		
Building and Grounds,	234.99		
		507.48	
Emery Street.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,	$2,483.51		
Fuel, Light and Power,	513.47		
Janitors' Supplies,	39.74		
Miscellaneous Supplies and Expenses,	16.41		
		3,053.13	
Maintenance and Repairs.			
Furniture and Fixtures,	$47.68		
Electrical Equipment,	23.15		
Heating, Plumbing and Ventilating,	25.57		
Building and Grounds,	134.06		
Tools,	206.03		
		436.49	
Five Mile Pond.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,	$470.60		
Fuel, Light and Power,	91.70		
Janitors' Supplies,	6.75		
		569.05	
Forward,		$64,378.97	$10,778.16

Forward,.....		$64,378.97	$10,778.16
Maintenance and Repairs.			
Furniture and Fixtures,.....	$33.64		
Heating, Plumbing and Ventilating,.....	29.85		
Building and Grounds,.....	105.95		
		169.44	
Forest Park.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,.....	$3,456.67		
Fuel, Light and Power,.....	2,061.38		
Janitors' Supplies,.....	206.81		
Miscellaneous Supplies and Expenses,....	128.93		
		5,853.79	
Maintenance and Repairs.			
Furniture and Fixtures,.....	$228.53		
Electrical Equipment,.....	226.21		
Heating, Plumbing and Ventilating,.....	148.40		
Building and Grounds,.....	517.29		
Portable School,.....	859.96		
		1,980.39	
Glenwood.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,.....	$1,016.60		
Fuel, Light and Power,.....	270.79		
Janitors' Supplies,.....	12.91		
Miscellaneous Supplies and Expenses,....	25.97		
		1,326.27	
Maintenance and Repairs.			
Electrical Equipment,.....	$4.46		
Heating, Plumbing and Ventilating,.....	38.74		
Building and Grounds,.....	5.85		
		49.05	
Central High.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,.....	$7,648.18		
Fuel, Light and Power,.....	7,017.13		
Janitors' Supplies,.....	281.64		
Miscellaneous Supplies and Expenses,....	127.33		
Engineers' Supplies,.....	31.39		
		15,105.62	
Maintenance and Repairs.			
Furniture and Fixtures,.....	$126.78		
Electrical Equipment,.....	306.01		
Heating, Plumbing and Ventilating,.....	891.89		
Building and Grounds,.....	1,041.28		
		2,365.96	
Forward,.....		$91,229.49	$10,778.16

Forward,.....		$91,229.49	$10,778.16
High School of Commerce.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,.....	$19,761.11		
Fuel, Light and Power,.....	4,613.13		
Janitors' Supplies,.....	485.74		
Engineers' Supplies,.....	181.12		
Miscellaneous Supplies and Expenses,....	212.71		
		25,253.81	
Maintenance and Repairs.			
Furniture and Fixtures,.....	$193.08		
Electrical Equipment,.....	301.00		
Heating, Plumbing and Ventilating,.....	409.33		
Building and Grounds,.....	308.13		
		1,211.54	
Technical High School.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,.....	$10,148.75		
Fuel, Light and Power,.....	6,889.03		
Janitors' Supplies,.....	361.87		
Engineers' Supplies,.....	182.65		
Miscellaneous Supplies and Expenses,....	175.11		
		17,707.41	
Maintenance and Repairs.			
Furniture and Fixtures,.....	$159.39		
Electrical Equipment,.....	895.92		
Heating, Plumbing and Ventilating,.....	605.79		
Building and Grounds,.....	1,091.06		
		2,252.16	
Homer Street.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,.....	$2,281.99		
Fuel, Light and Power,.....	2,023.27		
Janitors' Supplies,.....	35.64		
Miscellaneous Supplies and Expenses,....	58.27		
		4,399.17	
Maintenance and Repairs.			
Furniture and Fixtures,.....	$38.22		
Electrical Equipment,.....	131.47		
Heating, Plumbing and Ventilating,.....	39.41		
Building and Grounds,.....	138.89		
Portable School,.....	1,099.87		
		1,447.86	
Hooker School.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,.....	$4,030.05		
Fuel, Light and Power,.....	1,397.56		
Janitors' Supplies,.....	75.73		
Miscellaneous Supplies and Expenses,....	151.48		
		5,654.82	
Forward,.....		$149,156.26	$10,778.16

Forward,.....		$149,156.26	$10,778.16
Maintenance and Repairs.			
Furniture and Fixtures,.....	$267.26		
Electrical Equipment,.....	385.57		
Heating, Plumbing and Ventilating,.....	208.07		
Building and Grounds,.....	1,601.52		
		2,462.42	
Howard Street.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,.....	$3,530.72		
Fuel, Light and Power,.....	3,200.03		
Janitors' Supplies,.....	162.91		
Miscellaneous Supplies and Expenses,....	66.10		
		6,959.76	
Maintenance and Repairs.			
Furniture and Fixtures,.....	$131.01		
Electrical Equipment,.....	118.74		
Heating, Plumbing and Ventilating,.....	276.39		
Building and Grounds,.....	837.96		
		1,364.10	
Indian Orchard Grammar.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,.....	$3,560.12		
Fuel, Light and Power,.....	3,704.15		
Janitors' Supplies,.....	118.68		
Miscellaneous Supplies and Expenses,....	48.65		
		7,431.60	
Maintenance and Repairs.			
Furniture and Fixtures,.....	$96.39		
Electrical Equipment,.....	113.21		
Heating, Plumbing and Ventilating,.....	162.67		
Building and Grounds,.....	510.71		
		882.98	
Indian Orchard Primary.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,.....	$1,212.40		
Fuel, Light and Power,.....	46.22		
Janitors' Supplies,.....	16.27		
Miscellaneous Supplies and Expenses,....	18.20		
		1,293.09	
Maintenance and Repairs.			
Furniture and Fixtures,.....	$13.88		
Electrical Equipment,.....	12.90		
Heating, Plumbing and Ventilating,.....	5.43		
Building and Grounds,.....	194.45		
Portable School,.....	225.38		
		452.04	
Forward,.....		$170,002.25	$10,778.16

Forward,.....		$170,002.25	$10,778.16
Jefferson Avenue.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,.....	$1,568.30		
Fuel, Light and Power,.....	824.53		
Janitors' Supplies,.....	31.30		
Miscellaneous Supplies and Expenses,....	37.50		
		2,461.63	
Maintenance and Repairs.			
Furniture and Fixtures,.....	$93.30		
Electrical Equipment,.....	72.61		
Heating, Plumbing and Ventilating,.....	80.18		
Building and Grounds,.....	443.63		
		689.72	
Kensington Avenue.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,.....	$2,320.22		
Fuel, Light and Power,.....	734.56		
Janitors' Supplies,.....	89.97		
Miscellaneous Supplies and Expenses,....	93.04		
		3,237.79	
Maintenance and Repairs.			
Furniture and Fixtures,.....	$62.17		
Electrical Equipment,.....	33.07		
Heating, Plumbing and Ventilating,.....	148.52		
Building and Grounds,.....	256.13		
		499.89	
Lincoln.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,.....	$1,822.04		
Fuel, Light and Power,.....	1,026.28		
Janitors' Supplies,.....	116.71		
Miscellaneous Supplies and Expenses,....	114.65		
		3,079.68	
Maintenance and Repairs.			
Furniture and Fixtures,.....	$55.78		
Electrical Equipment,.....	62.54		
Heating, Plumbing and Ventilating,.....	313.22		
Building and Grounds,.....	302.27		
		733.81	
Liberty.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,.....	$1,317.16		
Fuel, Light and Power,.....	1,380.89		
Janitors' Supplies,.....	7.66		
Miscellaneous Supplies and Expenses,....	47.00		
		2,702.71	
Forward,.....		$183,407.48	$10,778.16

Forward,.....		$183,407.48	$10,778.16
Maintenance and Repairs.			
Furniture and Fixtures,.....	$84.44		
Electrical Equipment,.....	21.53		
Heating, Plumbing and Ventilating,.....	4.33		
Building and Grounds,.....	97.00		
		207.30	
Rushville.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,.....	$689.00		
Fuel, Light and Power,.....	174.53		
Janitors' Supplies,.....	9.14		
		872.67	
Maintenance and Repairs.			
Furniture and Fixtures,.....	$8.00		
Electrical Equipment,.....	1.50		
Heating, Plumbing and Ventilating,.....	31.59		
Building and Grounds,.....	130.48		
		171.57	
School Street.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,.....	$903.51		
Fuel, Light and Power,.....	490.59		
Janitors' Supplies,.....	7.09		
Miscellaneous Supplies and Expenses,....	18.40		
		1,419.59	
Maintenance and Repairs.			
Furniture and Fixtures,.....	$13.71		
Electrical Equipment,.....	2.60		
Heating, Plumbing and Ventilating,.....	109.53		
Building and Grounds,.....	141.13		
		266.97	
Sixteen Acres.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,.....	$634.40		
Fuel, Light and Power,.....	280.70		
Janitors' Supplies,.....	8.08		
		923.18	
Maintenance and Repairs.			
Furniture and Fixtures,.....	$3.00		
Electrical Equipment,.....	2.25		
Heating, Plumbing and Ventilating,.....	8.90		
Building and Grounds,.....	31.74		
		45.89	
Forward,.....		$187,314.65	$10,778.16

Forward,.....		$187,314.65	$10,778.16
State Street.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,.....	$2,456.49		
Fuel, Light and Power,.....	451.65		
Janitors' Supplies,.....	80.58		
Miscellaneous Supplies and Expenses,....	65.37		
		3,054.09	
Maintenance and Repairs.			
Furniture and Fixtures,.....	$134.24		
Electrical Equipment,.....	95.55		
Heating, Plumbing and Ventilating,.....	326.59		
Building and Grounds,.....	506.67		
		1,063.05	
Strickland.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,.....	$1,251.70		
Fuel, Light and Power,.....	880.96		
Janitors' Supplies,.....	28.90		
Miscellaneous Supplies and Expenses,....	27.83		
		2,189.39	
Maintenance and Repairs.			
Furniture and Fixtures,.....	$105.87		
Heating, Plumbing and Ventilating,.....	31.06		
Building and Grounds,.....	145.15		
		282.08	
Sumner Avenue.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,.....	$1,556.08		
Fuel, Light and Power,.....	709.06		
Janitors' Supplies,.....	138.49		
Miscellaneous Supplies and Expenses,....	67.47		
		2,471.10	
Maintenance and Repairs.			
Furniture and Fixtures,.....	$92.19		
Electrical Equipment,.....	34.89		
Heating, Plumbing and Ventilating,.....	24.48		
Building and Grounds,.....	253.36		
		404.92	
Tapley.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,.....	$1,805.27		
Fuel, Light and Power,.....	1,862.91		
Janitors' Supplies,.....	61.14		
Miscellaneous Supplies and Expenses,....	36.95		
		3,766.27	
Forward,.....		$200,545.55	$10,778.16

Forward,.....		$200,545.55	$10,778.16
Maintenance and Repairs.			
Furniture and Fixtures,.....	$188.10		
Electrical Equipment,.....	16.73		
Heating, Plumbing and Ventilating,.....	68.74		
Building and Grounds,.....	650.44		
		924.01	
Vocational.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,.....	$1,916.75		
Fuel, Light and Power,.....	1,911.22		
Janitors' Supplies,.....	76.70		
Miscellaneous Supplies and Expenses,....	8.00		
		3,912.67	
Maintenance and Repairs.			
Furniture and Fixtures,.....	$16.70		
Electrical Equipment,.....	172.42		
Heating, Plumbing and Ventilating,.....	128.03		
Building and Grounds,.....	199.83		
		516.98	
Washington.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,.....	$1,665.06		
Fuel, Light and Power,.....	476.30		
Janitors' Supplies,.....	59.18		
Miscellaneous Supplies and Expenses,....	75.15		
		2,275.69	
Maintenance and Repairs.			
Furniture and Fixtures,.....	$475.90		
Electrical Equipment,.....	59.16		
Heating, Plumbing and Ventilating,.....	106.85		
Building and Grounds,.....	532.52		
		1,174.43	
White Street.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,.....	$1,537.25		
Fuel, Light and Power,.....	1,475.87		
Janitors' Supplies,.....	21.75		
Miscellaneous Supplies and Expenses,....	85.34		
		3,120.21	
Maintenance and Repairs.			
Furniture and Fixtures,.....	$112.25		
Electrical Equipment,.....	71.64		
Heating, Plumbing and Ventilating,.....	274.86		
Building and Grounds,.....	125.40		
		584.15	
Forward,.....		$213,053.69	$10,778.16

Forward,.....		$213,053.69	$10,778.16
William Street.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,.....	$1,684.65		
Fuel, Light and Power,.....	1,043.21		
Janitors' Supplies,.....	65.90		
Miscellaneous Supplies and Expenses,....	50.85		
		2,844.61	
Maintenance and Repairs.			
Furniture and Fixtures,.....	$108.94		
Electrical Equipment,.....	103.84		
Heating, Plumbing and Ventilating,.....	163.76		
Building and Grounds,.....	1,274.60		
		1,651.14	
Worthington Street.			
Care and Operation.			
Salaries and Wages, Janitors, Engineers and Firemen,.....	$2,000.08		
Fuel, Light and Power,.....	1,719.91		
Janitors' Supplies,.....	54.21		
Miscellaneous Supplies and Expenses,....	60.74		
		3,834.94	
Maintenance and Repairs.			
Furniture and Fixtures,.....	$165.41		
Electrical Equipment,.....	41.11		
Heating, Plumbing and Ventilating,.....	480.97		
Building and Grounds,.....	790.43		
		1,477.92	
Carlisle.			
Care and Operation.			
Miscellaneous Supplies and Expenses,....		22.20	
Maintenance and Repairs.			
Building and Grounds,.....		3.60	
47 Vernon Street.			
Care and Operation.			
Fuel, Light and Power,.....		219.10	
Maintenance and Repairs.			
Electrical Equipment,.....	$0.79		
Building and Grounds,.....	45.79		
		46.58	
Rented Property.			
Care and Operation.			
Taxes and Water Rents,.....		59.70	
Maintenance and Repairs.			
Building and Grounds,.....		36.56	
Unassigned.			
Maintenance and Repairs.			
Furniture and Fixtures,.....		296.48	
Forward,.....		$223,546.52	$10,778.16

Forward,.....		$223,546.52	$10,778.16
Service Club.			
Maintenance and Repairs.			
Heating, Plumbing and Ventilating,.....		878.39	
			224,424.91
			$235,203.07
Less Transfers,.....			256.02
			$234,947.05
Militia Rifle Range.			
Administration.			
Taxes and Water Rents,.....		$188.58	
Operation.			
Salaries and Wages,.....		312.00	
Maintenance and Repairs.			
Other Expenses,.....		17.88	
			518.46
Municipal Group Buildings.			
Administration Building.			
Operation.			
Salaries and Wages, Janitors and Cleaners,	$21,190.90		
Communication Service,.....	1,247.95		
Transportation Service,.....	31.35		
Fuel, Light and Power,.....	2,061.21		
Janitors' Supplies,.....	1,287.76		
Mechanics' and Engineers' Supplies,.....	35.99		
Miscellaneous Supplies and Expenses,....	1,323.73		
		$27,178.89	
Maintenance and Repairs.			
Furniture and Fixtures,.....	$496.31		
Electrical Equipment,.....	658.51		
Heating, Plumbing and Ventilating,.....	42.71		
Building and Grounds,.....	784.72		
		1,982.25	
			29,161.14
Auditorium.			
Operation.			
Salaries and Wages, Janitors,.....	$5,866.41		
Fuel, Light and Power,.....	1,640.43		
Janitors' Supplies,.....	307.96		
Miscellaneous Supplies and Expenses,....	733.05		
		$8,547.85	
Maintenance and Repairs.			
Furniture and Fixtures,.....	$290.20		
Electrical Equipment,.....	356.29		
Heating, Plumbing and Ventilating,.....	81.37		
Building and Grounds,.....	2,524.17		
		3,252.03	
			11,799.88
Forward,.....			$276,426.53

Forward,.....			$276,426.53
Campanile.			
Operation.			
Salary, Chime Ringer,.....	$362.19		
Fuel, Light and Power,.....	251.84		
Miscellaneous Supplies and Expenses,....	366.40		
		$980.43	
Maintenance and Repairs.			
Furniture and Fixtures,.....	$12.57		
Electrical Equipment,.....	14.67		
Heating, Plumbing and Ventilating,.....	665.96		
		693.20	
			1;678.63
			$278,100.16
Public Sanitary.			
Operation.			
Salaries and Wages, Janitors,.....	$5,049.29		
Janitors' Supplies,.....	1,043.58		
Miscellaneous Supplies and Expenses,....	336.54		
		$6,429.41	
Maintenance and Repairs.			
Furniture and Fixtures,.....	$29.10		
Heating, Plumbing and Ventilating,.....	152.56		
Building and Grounds,.....	159.04		
		340.70	
			6,770.11
Municipal Heating Plant.			
Administration.			
Salaries, Chief Engineer and Assistant,....	$3,528.72		
Salaries and Wages, Firemen,.....	5,980.00		
Vacations and Other Lost Time,.....	224.00		
Miscellaneous Supplies and Expenses,....	292.64		
		$10,025.36	
Operation.			
Coal,.....	$8,738.91		
Oils and Lubricants,.....	145.41		
Miscellaneous Supplies and Expenses,....	697.70		
		9,582.02	
Maintenance and Repairs.			
Miscellaneous Supplies and Expenses,....		477.10	
		$20,084.48	
Less Transfers,.....		4,507.50	
			15,576.98
			$300,447.25
PUBLIC LIBRARY (Schedule 31).			
Contributions to Library.....			$95,059.54

PUBLIC PARKS (Schedule 32).

General Administration.			
Salary, Superintendent,		$3,274.98	
Salaries and Wages, Other Employees,		15,165.88	
Stationery and Office Supplies,		41.11	
Printing, Binding, etc.,		142.55	
Communication Service,		202.85	
Heat, Light and Power,		168.85	
Taxes and Water Rents,		29.59	
Vacations and Other Lost Time,		731.20	
Miscellaneous Supplies and Expenses,		760.73	
			$20,517.74
General Operation.			
Automobile Service.			
Salaries, Chauffeurs,	$4,140.97		
Operating Supplies,	4,002.66		
Repairs and Replacements,	3,160.61		
Other Expenses,	373.52		
		$11,677.76	
Teaming and Stables.			
Wages, Stable Men and Drivers,	$5,694.40		
Forage,	4,740.72		
Other Expenses,	914.07		
		11,349.19	
Drinking Fountains.			
Wages, Laborers,	$268.20		
Ice,	226.10		
Other Expenses,	31.56		
		525.86	
Zoological Garden, Forest Park.			
Wages,	$5,725.36		
Forage,	5,111.67		
Other Supplies,	974.94		
		11,811.97	
			35,364.78
Operating, Care and Maintenance, Parks.			
Forest Park.			
Buildings and Structures,	$2,874.77		
Roadways and Drives,	17,819.79		
Lawns, Gardens and Flowers,	4,554.44		
Pools and Ornamental Fountains,	634.65		
Tennis Courts, Ball and Play Grounds,	1,539.36		
Other Expenses,	7,557.74		
		$34,980.75	
Van Horn Park.			
Roadways and Drives,	$838.16		
Lawns, Gardens and Flowers,	2,605.44		
Other Expenses,	4.65		
		3,448.25	
All Other Small Parks.			
Roadways and Drives,	$4,038.52		
Lawns, Gardens and Flowers,	6,601.17		
Other Expenses,	42.39		
		10,682.08	
Forward,		$49,111.08	$55,882.52

Forward,.....		$49,111.08	$55,882.52
Botanical Division.			
Wages,.....	$6,262.48		
Supplies,.....	469.96		
Other Expenses,.....	233.85		
		6,966.29	
Forestry.			
Salaries and Wages,.....	$15,774.93		
Supplies,.....	2,161.80		
Materials,.....	37.16		
Equipment and Tools,.....	238.02		
		18,211.91	
			74,289.28
Maintenance and Repairs.			
Equipment.			
Stable,.....	$69.72		
Construction,.....	57.24		
Other Expenses,.....	873.08		
			1,000.04
Replacements.			
Equipment.			
Office,.....	$11.50		
Stable,.....	1,771.54		
Construction,.....	8,466.87		
Horticultural,.....	493.25		
Small Tools,.....	46.39		
			10,789.55
Division of Recreation and Entertainment.			
Administration.			
Salary, Director,.....	$900.00		
Salaries and Wages, Other Employees,.....	300.00		
Printing, Binding, etc.,.....	4.75		
Communication Service,.....	84.42		
		$1,289.17	
Operation.			
Playgrounds.			
Salaries, Directors and Assistants,.....	$4,020.38		
Salaries, Caretakers and Janitors,.....	4,184.88		
Recreational Supplies,.....	691.80		
Other Expenses,.....	431.15		
		$9,328.21	
Social Centers.			
Salaries, Assistants and Musicians,.....	$1,548.95		
Salaries, Janitors,.....	542.65		
Recreational Supplies,.....	40.00		
Other Expenses,.....	273.47		
		2,405.07	
Forward,.....		$11,733.28	$1,289.17	$141,961.39

Forward,.....	$11,733.28	$1,289.17	$141,961.39
Swimming Pools.			
Salaries and Wages,..... $2,755.28			
Supplies,..... 216.80			
Other Expenses,..... 307.01			
	3,279.09		
Celebrations and Entertainments.			
Independence Day,..... $198.18			
Band Concerts,..... 333.00			
	531.18		
		15,543.55	
Maintenance and Repairs.			
Equipment, Playground,.....		430.23	
Replacements.			
Equipment, Playground,.....		63.75	
			17,326.70
			$159,288.09

PUBLIC SAFETY, COMMITTEE ON (Schedule 33).

General Committee.			
Salaries and Wages,.....	$612.00		
Stationery and Office Supplies,.....	3.80		
Printing, Binding, etc.,.....	225.60		
Communication Service,.....	53.85		
Miscellaneous Supplies and Expenses,.....	12.05		
		$907.30	
Victory Bread Shop and Food Conservation.			
Provisions,.....	$22.05		
Traveling Expenses,.....	2.00		
Printing, Binding, etc.,.....	7.30		
Advertising and Signs,.....	24.95		
Paper and Twine,.....	4.83		
Fuel and Light,.....	25.47		
Telephone,.....	29.29		
Cleaning and Repairing,.....	6.65		
Laundry,.....	3.03		
Utensils,.....	22.95		
Transportation Service,.....	29.35		
		177.87	
Women's Committee.			
Salaries,.....	$234.00		
Advertising,.....	12.00		
Transportation Service,.....	18.72		
Miscellaneous Supplies and Expenses,.....	9.19		
		273.91	
Committee on War History.			
Miscellaneous Supplies and Expenses,.....		4.10	
Forward,.....		$1,363.18	

Forward,.....		$1,363.18	
Miscellaneous Committees.			
Fuel Committee,.....	$208.71		
Britain Day,.....	399.76		
Community Singing,.....	57.99		
Victory Day,.....	566.86		
State Guard,.....	643.82		
Miscellaneous Supplies and Expenses,.....	20.33		
		1,892.47	
Miscellaneous Expenditures.			
Stationery and Office Supplies,.....	$18.77		
Telephone,.....	11.65		
Photos of War Activities,.....	206.48		
Certificates,.....	110.80		
Engrossing Certificates,.....	197.00		
Miscellaneous Supplies and Expenses,.....	10.30		
		555.00	
			$3,810.65
PUBLIC WORKS, BOARD OF (Schedule 34).			
Administration.			
Salaries and Wages,.....		$1,604.77	
Stationery and Office Supplies,.....		18.05	
Printing, Binding, etc.,.....		25.43	
Transportation Service,.....		74.20	
Advertising,.....		7.25	
Miscellaneous Supplies and Expenses,.....		1.25	
			$1,730.95
REFUNDS (Schedule 35).			
Auditorium Rentals,.....		$120.00	
Corporation Taxes,.....		106.70	
Interest on Tax Bills,.....		4.89	
Licenses,.....		27.00	
Liquor Licenses,.....		11,387.10	
Public Buildings,.....		60.00	
Garbage Disposal,.....		10.45	
Sidewalks and Curbing,.....		92.45	
Sewer Fees,.....		1,322.01	
Sales, Miscellaneous,.....		5.24	
Tax Sales,.....		254.55	
Tuition—Schools,.....		195.50	
			$13,585.89
REGISTRARS OF VOTERS, BOARD OF (Schedule 36).			
Salaries and Wages,.....		$11,311.65	
Stationery and Office Supplies,.....		156.53	
Printing, Binding, etc.,.....		3,743.82	
Advertising,.....		209.05	
Transportation Service,.....		410.22	
Rents and Privileges,.....		445.00	
Miscellaneous Supplies and Expenses,.....		744.29	
			$17,020.56

REVISION OF ORDINANCES (Schedule 37).		
Printing, Binding, etc.,		$179.53
REVENUES RECEIVABLE, ABATEMENT OF (Schedule 38).		
Reserve for Abated Bills,		$17,868.05
SCHOOL DEPARTMENT (Schedule 39).		
General Administration.		
Salaries.		
Superintendent,	$5,200.00	
Assistant Superintendent,	1,075.00	
Secretary of the School Committee,	100.00	
Chief Clerk,	2,575.00	
Clerks,	7,192.10	
Attendance Officers,	6,200.00	
		$22,842.10
Administration.		
Stationery and Office Supplies,		535.38
Printing,		1,034.21
Advertising,		94.17
Communication Service.		
Postage,	$581.94	
Telephone,	89.25	
Telegraph,	15.68	
		686.87
Transportation Service.		
Freight and Express,		4.33
Miscellaneous Supplies and Expenses Not Elsewhere Provided For.		
Auto Upkeep,	$250.00	
Magazine Subscriptions,	49.35	
Miscellaneous,	12.15	
		311.50
Traveling Expenses,		532.59
Maintenance and Repairs of Equipment,		71.09
Replacement of Equipment,		83.03
Storehouse.		
Salary, Clerk,		1,175.00
Expenses.		
Assistance,	$1,943.02	
Telephone,	75.99	
Delivery Supplies,	1,336.89	
Miscellaneous,	90.05	
		3,445.95
Total,		$30,316.22

CENTRAL HIGH SCHOOL.

Administration.			
Salary, Principal,			$4,075.00
Salaries, Clerical Assistance,			1,900.15
Office Supplies,			95.70
Printing,			590.35
Communication Service.			
Postage,		$93.76	
Telephone,		10.38	
			104.14
Transportation Service,			24.76
Traveling Expenses,			104.40
Operation.			
Salaries, Heads of Departments,		$18,676.50	
Teachers,		63,401.49	
			82,077.99
Salaries, Miscellaneous Assistance.			
Piano Accompanist,		$88.34	
Laboratory,		190.27	
Physical Education,		400.94	
Drawing,		9.08	
Office,		41.01	
Miscellaneous,		12.30	
			741.94
Books.			
Text,		$1,389.95	
Reference,		192.71	
Magazine Subscriptions,		31.25	
Binding,		154.80	
Covers,		53.45	
			1,822.16
Stationery Supplies.			
Paper.			
Drawing,	$97.47		
Notebooks,	181.36		
Envelopes,	15.25		
Blotting,	1.55		
Pressboard and Cardboard,	221.02		
Miscellaneous,	14.37		
		$531.02	
Ink,		28.00	
Paste, etc.,		8.40	
Pencils,		134.35	
Pens and Holders,		19.44	
Rubber Erasers,		14.58	
			735.79
Supplies and Materials Used in Special Courses.			
Science.			
Small glassware and other small laboratory articles,	$187.22		
Chemicals,	59.89		
Miscellaneous,	412.43		
		$659.54	
Forward,		$659.54	$92,272.38

Forward,		$659.54	$92,272.38
Domestic Science.			
Provisions,	$150.76		
Miscellaneous,	12.97		
Sewing Supplies,	52.24		
		$215.97	
Physical Education.			
Rent of Field,	$41.67		
Miscellaneous,	85.00		
		126.67	
Drawing.			
Paints,	$195.60		
Miscellaneous,	170.20		
		365.80	
			1,367.98
Other Operating Supplies.			
Maps, Charts and Globes,		$26.65	
Sponges,		9.00	
Pencil Sharpeners,		21.60	
Scissors,		6.70	
Paper Towels,		242.99	
Linen Towels,		9.50	
Miscellaneous,		19.75	
			336.19
Other Operating Expenses.			
Graduation Expenses,		$156.21	
Miscellaneous,		12.40	
			168.61
Maintenance and Repair of Equipment.			
Science,		$18.45	
Sewing,		.70	
Miscellaneous,		36.50	
			55.65
Replacement of Equipment.			
Science,		$178.61	
Miscellaneous,		13.40	
			192.01
Total,			$94,892.82

TECHNICAL HIGH SCHOOL.

Administration.			
Salary, Principal,			$3,725.00
Salaries, Clerical Assistance,			2,007.76
Office Supplies,			186.14
Printing,			569.13
Communication Service.			
Postage,		$76.00	
Telephone,		42.98	
			118.98
Transportation Service.			
Freight and Express,			63.47
Traveling Expenses,			34.62
Forward,			$6,705.10

Forward,.....			$6,705.10
Operation.			
Salaries.			
Heads of Departments,.....		$18,961.00	
Teachers,.....		58,538.60	
			77,499.60
Salaries, Miscellaneous Assistance.			
Tool Room,.....		$425.31	
Laboratory,.....		49.00	
Design,.....		24.80	
Physical Education,.....		47.70	
Piano Accompanist,.....		88.33	
Miscellaneous,.....		199.29	
			834.43
Books.			
Text,.....		$1,046.70	
Reference,.....		109.22	
Magazine Subscriptions,.....		20.00	
Binding,.....		101.48	
Covers,.....		102.00	
			1,379.40
Stationery Supplies.			
Paper.			
White,.....	$228.15		
Manila,.....	28.60		
Notebooks,.....	32.00		
Envelopes,.....	1.13		
Blotting,.....	7.05		
		$296.93	
Paste,.....		2.40	
Pencils,.....		20.25	
Pens and Holders,.....		16.75	
Thumb Tacks and Paper Fasteners,.....		9.90	
Rubber Erasers,.....		6.21	
Rubber Bands,.....		2.58	
			355.02
Supplies Used in Special Courses.			
Chemistry and Physics.			
Small Glassware and Other Laboratory Articles,.....	$209.50		
Chemicals,.....	77.33		
Miscellaneous,.....	178.24		
		$465.07	
Drawing.			
Small Drawing Tools,.....	$47.16		
Paper, Pencils and Ink,.....	312.51		
Miscellaneous,.....	21.53		
		381.20	
Machine Shop.			
Small Tools,.....	$219.24		
Castings and Metals,.....	269.56		
Miscellaneous,.....	50.87		
		539.67	
Forward,.....		$1,385.94	$86,778.55

Forward,		$1,385.94	$86,773.55
Wood Work.			
Lumber,	$175.02		
Small Tools,	229.25		
Miscellaneous,	67.36		
		471.63	
Household Science.			
Provisions,	$252.87		
Miscellaneous,	87.81		
		340.68	
Household Arts,		83.28	
Design.			
Small Tools,	$23.79		
Miscellaneous,	185.10		
		208.89	
Forging.			
Coal,	$87.00		
Metals,	384.53		
Miscellaneous,	17.79		
		489.32	
Physical Education.			
Rent of Field,	$41.66		
Miscellaneous,	152.29		
		193.95	
			2,173.69
Other Operating Supplies.			
Paper Towels,		$216.50	
Miscellaneous,		87.64	
			304.14
Other Operating Expenses.			
Graduation Expenses,		$170.29	
Miscellaneous,		2.45	
			172.74
Maintenance and Repair of Equipment.			
Chemistry and Physics,		$57.18	
Machine Shop,		18.53	
Wood Work,		24.83	
Household Science,		27.00	
Household Arts,		36.00	
Design,		26.39	
Gymnasium,		36.18	
Miscellaneous,		155.87	
			381.98
Replacement of Equipment.			
Chemistry and Physics,		$47.35	
Wood Work,		88.83	
Household Science,		6.35	
			142.53
Total,			$90,948.63

EVENING SCHOOL OF TRADES.

Administration.		
Salary, Principal,		$455.00
Salaries, Clerical Assistance,		241.50
Printing,		85.71
Operation.		
Salaries, Teachers,		6,026.50
Salaries, Miscellaneous Assistance,		150.00
Supplies Used in Special Courses.		
Machine Shop,	$21.24	
Electricity,	160.55	
Plumbing,	158.57	
Wood Work,	15.00	
Sewing,	88.48	
		443.84
Other Operating Expenses,		39.00
Total,		$7,391.55

HIGH SCHOOL OF COMMERCE.

Administration.		
Salary, Principal,		$3,875.00
Salaries, Clerical Assistance,		1,980.00
Stationery and Office Supplies,		10.76
Printing,		509.48
Communication Service.		
Postage,	$25.00	
Telephone,	20.09	
		45.09
Transportation Service,		76.72
Traveling Expenses		118.58
Operation.		
Salaries, Teachers.		
Heads of Departments,	$13,600.00	
Teachers,	71,784.97	
		85,384.97
Salaries, Matron,		850.00
Salaries, Miscellaneous Assistance.		
Moving Pictures,	$346.50	
Piano Accompanist,	88.33	
Physical Education,	144.41	
Office,	7.63	
Miscellaneous,	14.50	
		601.37
Books.		
Text,	$2,149.62	
Magazine Subscriptions,	49.84	
Reference,	320.31	
Binding,	74.70	
Mending Materials,	2.10	
Covers,	2.73	
		2,599.30
Forward,		$96,046.27

Forward,			$96,046.27
Stationery Supplies.			
Paper.			
White,	$133.20		
Drawing,	11.51		
Bookkeeping,	1,284.52		
Notebooks,	222.05		
Blotting,	9.72		
Pressboard and Covers,	56.52		
Typewriting,	419.41		
Miscellaneous,	109.91		
		$2,246.84	
Ink,		89.75	
Paste, etc.,		12.00	
Pencils,		115.80	
Pens and Holders,		88.90	
Thumb Tacks and Fasteners,		50.71	
Rubber Erasers,		2.25	
Rubber Bands,		7.42	
Miscellaneous,		34.25	
			2,647.92
Supplies and Material Used in Special Courses.			
Laboratory.			
Small Glassware and Other Small Laboratory Articles,	$78.90		
Chemicals,	264.39		
Miscellaneous,	3.78		
		$347.07	
Shop.			
Lumber,	$337.45		
Small Tools and Hardware,	12.82		
Miscellaneous,	68.47		
		418.74	
Cookery.			
Provisions,	$919.31		
Miscellaneous,	50.40		
		969.71	
Sewing,		135.07	
Drawing,		9.00	
Physical Education.			
Rent of Field,	$41.67		
Laundry,	1,049.68		
Miscellaneous,	132.29		
		1,223.64	
			3,103.23
Other Operating Supplies.			
Paper Towels,		$145.24	
Outline Maps,		88.83	
Miscellaneous,		215.92	
			449.99
Forward,			$102,247.41

Forward,.....			$102,247.41
Other Operating Expenses.			
Moving Pictures.			
Films,.....	$689.26		
Miscellaneous,.....	46.74		
		$686.00	
Graduation Expenses,.....		146.00	
			832.00
Maintenance and Repairs of Equipment,.....			163.72
Replacement of Equipment,.....			411.84
Total,.....			$103,654.97

EVENING HIGH SCHOOL.

Administration.			
Salary, Principal,.....			$408.00
Salaries, Clerical Assistance,.....			191.50
Stationery and Office Supplies,.....			13.09
Printing,.....			132.88
Transportation Service,.....			1.80
Operation.			
Salaries, Teachers,.....			6,516.25
Books,.....			514.99
Stationery Supplies.			
Paper.			
Manila,.....	$3.95		
Drawing,.....	11.32		
Bookkeeping,.....	151.00		
Notebooks,.....	18.46		
Envelopes,.....	.09		
Blotting,.....	3.09		
Pressboard and Cardboard,.....	6.60		
Miscellaneous,.....	4.35		
		$198.86	
Paste, etc.,.....		1.45	
Pencils,.....		39.79	
Pens and Holders,.....		21.00	
Thumb Tacks and Paper Fasteners,.....		1.33	
Rubber Erasers,.....		.70	
Rubber Bands,.....		.43	
			263.56
Supplies and Materials Used in Special Courses,.....			102.00
Other Operating Supplies,.....			31.21
Other Operating Expenses.			
Graduation Expenses,.....		$20.53	
Models,.....		15.00	
			35.53
Total,.....			$8,210.31

VOCATIONAL SCHOOL.

Administration.			
Salary, Principal,			$1,930.64
Salaries, Clerical Assistance,			1,046.33
Stationery and Office Supplies,			7.26
Communication Service.			
Postage,		$61.50	
Telephone,		8.05	
			69.55
Transportation Service.			
Freight and Express,			29.49
Traveling Expenses,			138.31
Operation.			
Salaries, Teachers,			12,218.99
Salaries, Miscellaneous,			21.38
Books.			
Text,		$25.50	
Reference,		3.50	
Magazine Subscriptions,		16.00	
			45.00
Stationery Supplies.			
Paper.			
White,	$4.85		
Manila,	8.80		
Blotting,	.22		
Pressboard and Cardboard,	2.00		
		$15.87	
Ink,		1.50	
Paste, etc.,		.60	
Pencils,		16.65	
Pens and Holders,		3.36	
Thumb Tacks and Paper Fasteners,		1.50	
Rubber Bands,		1.29	
			40.77
Materials and Supplies Used in Special Courses.			
Carpentry.			
Lumber,	$309.23		
Hardware,	30.80		
Miscellaneous,	76.14		
		$416.17	
Cabinet.			
Lumber,	$296.85		
Hardware,	22.15		
Miscellaneous,	86.97		
		405.47	
Pattern.			
Lumber,	$145.85		
Miscellaneous,	34.94		
		180.79	
Forward,		$1,002.43	$15,547.72

Forward,		$1,002.43	$15,547.72
Machine Shop.			
Small Tools,	$1.25		
Metals and Castings,	275.63		
Miscellaneous,	161.53		
		438.41	
Physical Education,		2.88	
			1,443.72
Other Operating Supplies.			
First Aid Supplies,		$4.23	
Miscellaneous,		3.16	
			7.39
Other Operating Expenses.			
Graduation Expenses,			1.40
Maintenance and Repairs of Equipment.			
Printing,		$6.00	
Carpentry,		5.78	
Cabinet,		5.79	
Pattern,		3.16	
Machine Shop,		9.52	
Miscellaneous,		8.08	
			38.33
Replacement of Equipment.			
Printing,		$43.38	
Carpentry,		22.01	
Cabinet,		22.01	
Pattern,		20.17	
Machine Shop,		569.03	
			676.60
Total,			$17,715.16

EVENING VOCATIONAL SCHOOL.

Salaries,	$1,718.85
Supplies,	137.94
Other Operating Expense,	18.40
Total,	$1,875.19

VOCATIONAL—SPECIAL.

Tuition.	
Bristol County Agricultural School,	$34.00

GRADED SCHOOLS.

Administration.			
Salaries, Supervisors,		$26,124.76	
Supervising Principals,		53,975.25	
			$80,100.01
Stationery and Office Supplies,			520.11
Printing,			2,811.16
Forward,			$83,431.28

Forward,			$83,431.28
Communication Service.			
Postage,		$20.00	
Telephone,		1,322.37	
			1,342.37
Transportation Service.			
Freight and Express,			383.84
Miscellaneous Supplies and Expenses,			47.62
Operation.			
Salaries, Teachers,			596,807.43
Salaries, Matrons,			6,142.50
Salaries, Miscellaneous Assistance.			
Industrial Work,		$433.88	
Physical Education,		302.00	
Care of Lunch Room,		181.00	
			916.88
Transportation of Pupils,			3,715.50
Support of Truants,			995.96
Books.			
Text,		$11,913.08	
Reference,		876.71	
Binding,		446.63	
Mending Materials,		226.65	
Covers,		1,506.50	
Writing Copies,		84.56	
Music,		48.85	
			15,102.98
Stationery Supplies.			
Paper.			
White,	$3,266.62		
Manila,	1,961.40		
Drawing,	1,914.11		
Bookkeeping,	203.68		
Notebooks,	915.93		
Envelopes,	419.12		
Blotting,	230.98		
Pressboard and Cardboard,	1,290.36		
Miscellaneous,	509.85		
		$10,711.55	
Ink,		294.31	
Paste, etc.,		484.45	
Pencils,		1,966.98	
Thumb Tacks and Paper Fasteners,		422.28	
Rubber Erasers,		241.09	
Rubber Bands,		105.26	
Miscellaneous,		75.75	
			14,301.67
Forward,			$723,186.03

Forward,.....			$723,188.03
Supplies Used in Special Courses.			
Physical Education.			
Baseball,.....	$194.34		
Field Day,.....	74.12		
Gymnasium,.....	44.09		
Phonograph Records and Music,.....	108.55		
Miscellaneous,.....	708.56		
		$1,129.66	
Industrial Work.			
Lumber	$4,071.81		
Metals,.....	772.69		
Cement, Sand, etc.,.....	113.21		
Paints,.....	553.23		
Hardware,.....	1,466.06		
First Aid Supplies,.....	11.40		
Printing Supplies,.....	132.65		
Mechanical Drawing,.....	113.41		
Hand Work,.....	755.99		
Miscellaneous,.....	243.77		
		8,234.22	
Household Science and Practical Arts.			
Provisions,.....	$2,062.43		
Ice,.....	58.46		
Dishes and Cooking Utensils,.....	146.12		
Laundry,.....	54.48		
Miscellaneous,.....	58.80		
Sewing Supplies,.....	964.18		
		3,344.47	
Science.			
Junior High Supplies,.....	$154.97		
Gardens,.....	215.43		
Elementary Science Supplies,.....	103.99		
		474.39	
Drawing.			
Paint,.....	$490.30		
Paint Brushes and Pans,.....	137.97		
Drawing Crayons,.....	348.20		
Miscellaneous,.....	725.09		
		1,701.56	
			14,884.30
Supplies Used in Open-Air Rooms.			
Provisions,.....		$2,908.22	
Laundry,.....		126.94	
Miscellaneous,.....		129.83	
			3,164.99
Other Miscellaneous Supplies.			
Kindergarten Material,.....		$220.87	
Outline Maps,.....		72.82	
Compasses,.....		62.94	
Rules,.....		171.33	
Maps, Charts, and Globes,.....		87.54	
Blackboard Erasers,.....		211.10	
Forward,.....		$826.60	$741,237.32

Forward,	$826.60	$741,237.32
Sponges,	490.05	
Chalk,	133.44	
Pencil Sharpener,	136.00	
Mats,	206.10	
Burlap,	74.25	
Hygiene Supplies,	167.14	
Paper Towels,	1,298.40	
Linen Towels,	594.60	
Word and Number Builders,	531.18	
Hektographs,	141.60	
Miscellaneous,	695.81	
		5,295.17
Other Operating Expense,		264.81
Maintenance and Repairs of Equipment.		
Physical Education,	$65.50	
Industrial Work,	122.75	
Household Science and Practical Arts,	67.25	
Tuning and Repairing Pianos,	54.75	
Miscellaneous,	32.39	
		342.64
Replacement of Equipment.		
Physical Education,	$14.40	
Industrial Work,	682.22	
Household Science and Practical Arts,	127.68	
Science,	49.55	
Miscellaneous,	202.40	
		1,076.25
Total,		$748,216.19

KINDERGARTENS

Salaries, Teachers,		$48,853.01
Supplies,		802.39
Other Operating Expenses.		
Christmas Allowance,	$52.00	
Tuning Pianos,	25.00	
Miscellaneous,	27.01	
		104.01
Replacement of Equipment,		218.00
Total,		$49,977.41

ELEMENTARY EVENING SCHOOLS.

Administration.	
Salaries, Principals,	$869.50
Printing,	12.21
Operation.	
Salaries, Teachers,	3,623.75
Books,	53.83
Stationery Supplies,	23.83
Other Operating Supplies,	2.86
Other Operating Expense,	5.00
Total,	$4,590.98

EVENING SCHOOL EXTENSION.

Salaries.		
Assistant Director,	$475.00	
Principal,	154.00	
Teachers, etc.,	727.00	
		$1,356.00
Books,		64.74
Miscellaneous Expenses.		
Printing,	$77.04	
Lectures,	10.00	
Moving Picture Films,	25.00	
Miscellaneous,	30.28	
		142.32
Total,		$1,563.06

SUMMER SCHOOLS.

Salaries,	$8,998.50
Miscellaneous Supplies,	157.82
Miscellaneous Expenses,	113.27
Total,	$9,269.59

HIGH SCHOOLS LUNCH.

Salaries.		
Director,	$1,590.00	
Assistant Director,	955.00	
Other Assistance,	8,041.48	
		$10,586.48
Supplies.		
Provisions,	$29,147.71	
Ice,	300.18	
Napkins,	7.56	
Cleaning Supplies,	89.15	
Miscellaneous,	60.77	
		29,605.37
Other Expenses.		
Carfare,	$52.38	
Postage,	6.29	
Laundry,	239.95	
Telephone,	10.47	
Freight and Express,	11.84	
Miscellaneous,	54.44	
		375.28
Maintenance and Repairs of Equipment,		13.41
Replacement of Equipment,		228.31
Total,		$40,808.85

GRADED SCHOOLS LUNCH.

Salaries,		$183.60
Supplies.		
Provisions,	$489.85	
Miscellaneous,	37.56	
		527.41
Miscellaneous Expenses,		7.50
Total,		$718.51
Grand Total—School Department,		$1,209,683.44

SMOKE INSPECTION (Schedule 40).

Operation.		
Salaries and Wages,	$262.47	
Miscellaneous Supplies and Expenses	59.00	
		$321.47

SOLDIERS' RELIEF COMMISSIONER (Schedule 41).

Administration.		
Salary of Secretary,	$2,254.16	
Stationery and Office Supplies,	94.60	
Printing, Binding, etc.,	27.78	
Communication Service,	19.55	
Transportation Service,	24.92	
Salary of Clerk,	7.80	
Miscellaneous Supplies and Expenses,	51.00	
		$2,479.81
State Aid.		
Contributions to Civil War Veterans,	$9,646.00	
Contributions to Spanish War Veterans,	192.00	
Contributions to Military Aid,	40.00	
		9,878.00
Soldiers' Relief.		
Contributions,		6,659.83
		$19,017.64

SOLDIERS' AND SAILORS' GRAVES, CARE OF (Schedule 42).

Administration.		
Salary of Supervisor,	$207.22	
Care of Graves,	629.00	
		$836.22

STREETS AND ENGINEERING, DEPARTMENT OF (Schedule 43).

Completed Work.		
Collection of Ashes.		
City's Proportion,.....		$108,324.31
Collection and Disposal of Rubbish.		
City's Proportion,.....		39,782.42
Collection and Disposal of Garbage.		
City's Proportion,.....		47,841.99
Bridge Maintenance.		
City's Proportion,.....	$23,496.11	
Assessable,.....	41,200.67	
		64,696.78
Highways—Construction.		
City's Proportion,.....	$111,028.96	
Assessable,.....	252.29	
		111,281.25
Highways—Maintenance.		
City's Proportion,.....	$189,274.23	
Assessable,.....	16,912.25	
		206,186.48
Mayor's Automobile,.....		1,890.75
Municipal Automobile,.....		858.17
Work done for City Departments and Others,..		2,717.25
Repair Shop,.....		127.86
Sewers—Construction.		
City's Proportion,.....		63,851.90
Sewers—Maintenance.		
City's Proportion,.....	$25,661.96	
Assessable,.....	6,450.39	
		32,112.35
Sidewalks and Curbing—Construction.		
City's Proportion,.....	$2,285.63	
Assessable,.....	26,534.05	
		28,819.68
Sidewalks and Curbing—Maintenance.		
City's Proportion,.....	$13,860.92	
Assessable,.....	1,538.45	
		15,399.37
Stables and Yards.		
Improvements,.....		18,186.35
Street Cleaning.		
City's Proportion,.....	$110,925.20	
Assessable,.....	50.36	
		110,975.56
Street Lighting,.....		144,330.45
Street Oiling.		
City's Proportion,.....	$35,484.78	
Assessable,.....	262.50	
		35,747.28
Forward,.....		$1,033,128.70

Forward,.....		$1,033,128.70
Street Sprinkling.		
City's Proportion,.....		16,135.12
Not Chargeable to Departmental Cost,.....		13,486.16
Miscellaneous Expenditures.		
Unpaid Bills, 1918,.....	$1,025.56	
Materials from Sources Unaccounted For,....	5,257.81	
Adjustments, Overhead Expense,.....	25,397.28	
		31,680.65
		$1,094,431.63
Less Use of Equipment,.....		502.94
		$1,093,928.69
Less Transfers,.....	$94,156.29	
Less Surface Sewer, Direct Charges,.....	338.82	
		94,495.11
		$999,433.58
TAXES (Schedule 44).		
County Tax,.....	$185,963.20	
National Bank Tax,.....	21,748.41	
State Tax,.....	476,660.80	
		$684,372.41
TAX EXEMPTION, SOLDIERS AND SAILORS (Schedule 45).		
Payment to Commonwealth,.....		$1,152.47
UNITED STATES ARMY TRAINING SCHOOL (Schedule 46).		
Salaries and Wages,.....	$305.00	
Miscellaneous Supplies and Expenses,.....	203.83	
		$508.83
VAN HORN PARK (Schedule 47).		
Miscellaneous Supplies and Expenses,.....		$1,272.55
WEIGHTS AND MEASURES, SEALER OF (Schedule 48).		
Administration.		
Salary of Sealer,.....	$1,875.00	
Stationery and Office Supplies,.....	27.52	
Salaries and Wages, Other Employees,.....	221.35	
Printing, Binding, etc.,.....	65.78	
Communication Service,.....	7.60	
Transportation Service,.....	138.91	
Miscellaneous Supplies and Expenses,.....	173.34	
		$2,509.50
Forward,.....		$2,509.50

Forward,.....			$2,509.50
Operation.			
Salaries, Deputies and Inspector,.....		$2,600.01	
Automobile Service.			
Operating Supplies,.....	$317.39		
Repairs and Replacements,.....	211.01		
Other Expenses,.....	243.01		
		771.41	
			3,371.42
			$5,880.92
WIRES, INSPECTION OF (Schedule 49).			
Operation.			
Salary, Inspector,.....		$625.00	
Communication Service,.....		36.37	
Printing, Binding, etc.,.....		25.93	
Advertising,.....		10.80	
			$698.10
Maintenance and Repairs.			
Cable,.....		$398.20	
Pipe and Labor,.....		192.39	
Miscellaneous Supplies and Expenses,.....		21.23	
			611.82
			$1,309.92
WORKMEN'S COMPENSATION (Schedule 50).			
Damages and Compensation,.....			$1,700.49
Total General Fund Expense,.....			$5,605,450.38

EXPENSE.

INCURRED IN YEAR ENDED NOVEMBER 30, 1919.

WATER FUND.

(Schedule L.)

WATER DEPARTMENT.

Operating Expense.		
Commercial Expense,	$14,140.46	
Distribution Expense,	50,299.76	
General Expense,	29,898.56	
Source of Supply,	58,382.44	
Transmission Expense,	4,852.54	
Undistributed Expense,	5,190.56	
Public Safety Expense,	42.03	
		$162,806.35
Less Amounts Charged in Operating Expenses, Not Cash,		5,195.63
		$157,610.72
Miscellaneous Expense.		
Interest on Bonded Indebtedness,	$73,770.00	
Depreciation Charge,	36,000.00	
Reserve for Abated Bills,	3,952.07	
		113,722.07
Cost of Sales (Chargeable to Consumer),		53,120.21
Total,		$324,453.00

SALARIES

AS OF NOVEMBER 30, 1919.

Assessors,	$3,000.00
Clerks,	$850 to 1,400.00
Building Department:	
Commissioner,	4,000.00
Inspectors of Buildings,	2,000.00
Inspector of Gas Piping,	1,800.00
Inspector of Plumbing,	2,100.00
Inspector of Inside Wires,	2,100.00
Inspector of Elevators,	2,000.00
Assistant Inspector of Plumbing,	2,000.00
Assistant Inspectors of Inside Wires,	1,800.00
Clerk,	1,100.00
Charities Department:	
Agent,	2,200.00
Assistant Agent,	1,800.00
City Physician,	2,400.00
Almshouse Master,	1,800.00
Clerks,	$880 to 1,800.00
City Auditor,	3,700.00
City Auditor, Deputy,	2,500.00
Clerks,	$950 to 1,350.00
City Clerk,	3,500.00
City Clerk, Assistant,	2,000.00
Clerks,	$1,000 to 1,050.00
City Collector,	3,700.00
Clerks,	$880 to 2,000.00
City Printing Expert,	750.00
City Treasurer,	4,000.00
Treasurer of Trust Funds,	300.00
City Treasurer, Deputy,	2,500.00
Clerks,	$1,150 to 2,000.00
Common Council, Clerk,	600.00
Fire Department:	
Chief,	3,600.00
Deputy Chief,	3,000.00
District Chiefs,	2,550.00
Captains,	2,250.00
Lieutenants,	2,050.00
Superintendent of Fire Alarm,	1,900.00
Superintendent of Fire Apparatus Repairs,	2,250.00
Engineers,	1,894.50
Firemen—Grade A,	(day) 5.00
Firemen—Grade B,	(day) 4.72
Firemen—Grade C,	(day) 4.44
Clerks,	1,565.00
Fish Warden,	25.00
Forest Warden,	100.00
Health Department:	
Agent,	2,500.00
Dentists,	800.00
Health Physician,	2,400.00
Inspector of Milk and Vinegar,	1,800.00

Inspector of Meats and Provisions,	$1,200.00
Inspector of Slaughtering,	300.00
Assistant Inspector of Milk and Vinegar,	1,900.00
Sanitary Inspector, Chief,	2,000.00
Sanitary Inspectors,	1,700.00
Clerks,	$700 to 1,300.00
Law Department:	
City Solicitor,	4,000.00
City Solicitor, Assistant,	2,000.00
City Prosecuting Attorney,	2,000.00
Clerk,	1,300.00
License Commission, Chairman,	250.00
Clerk,	150.00
Mayor,	4,000.00
Clerk,	1,400.00
Messenger,	2,000.00
Municipal Chime Ringer,	400.00
Police Department:	
Chief,	3,600.00
Deputy Chief,	2,650.00
Captain of Detectives,	2,350.00
Captains,	2,250.00
Detective Lieutenants,	2,050.00
Lieutenants,	2,050.00
Dectective Sergeants,	1,950.00
Sergeants,	1,950.00
Matrons,	1,000.00
Superintendent of Police Signal System,	600.00
Patrolmen—Grade A,	(day) 5.00
Patrolmen—Grade B,	(day) 4.72
Patrolmen—Grade C,	(day) 4.44
Reserves and Specials,	(day) 4.00
Lockup Keeper,	25.00
Clerks,	$939 to 1,300.00
Clerk, Board of Police Commissioners,	200.00
Public Buildings, Superintendent,	3,100.00
Clerks,	$783 to 1,609.00
Public Parks, Superintendent,	3,500.00
Clerk,	1,600.00
Registrars of Voters,	400.00
Registrars of Voters, Clerk,	450.00
Clerks,	$1,050 to 1,250.00
School Department:	
Superintendent,	5,800.00
Assistant Superintendent, etc.,	3,600.00
Chief Clerk,	2,800.00
Attendance Officer,	2,100.00
Assistant Attendance Officers,	$1,600 to 1,700.00
Clerks,	$1,000 to 1,500.00
Smoke Inspector,	300.00
Soldiers' Relief Commissioner,	1,900.00
Soldiers' and Sailors' Graves, Supervisor of,	200.00
Streets and Engineering, Department of:	
Superintendent,	4,300.00
Superintendent, Division of Streets,	3,200.00
Superintendent, Division of Engineering,	2,700.00

Superintendent, Division of Sewers,	$2,700.00
Superintendent, Division of Garbage, etc.,	2,200.00
Superintendent, Division of Street Lighting,	2,200.00
Clerks,	$887 to 1,300.00
Wires, Inspector of (Outside),	500.00
Weights and Measures:	
Sealer,	2,100.00
Deputy Sealer,	1,450.00
Deputy Sealer,	1,450.00
Clerk,	600.00
Water Department:	
Chief Engineer,	5,000.00
Assistant Engineer,	3,000.00
Assistant Engineer,	1,869.00
Assistant Engineer,	1,765.00
Superintendent,	3,650.00
Assistant Superintendent,	3,200.00
Registrar and Clerk,	2,850.00
Chemist,	1,800.00
Clerks,	$704 to 2,000.00

SINKING FUNDS.

REPORT

OF THE

COMMISSIONERS OF THE SINKING FUNDS

SPRINGFIELD, MASS., November 17, 1919.

To His Honor, the Mayor, and the City Council.

GENTLEMEN:—The Commissioners of the Sinking Funds of the City of Springfield have the honor to report the condition of the sinking funds, established to meet indebtedness of the city, and the income accruing to the same for the year ending November 17, 1919, as follows:—

WATER WORKS.

$275,000, 3½% and 4% bonds, 1920 and 1923.

RECEIPTS.

Amount on hand at last report		$176,579.99	
Surplus balance from the Water Department for 1918, December 30, 1918		21,593.54	
Interest on bank balances		92.21	
Interest on investments		8,110.00	
		$206,375.74	
Accrued interest paid on bonds—charged off	$324.65		
Commission paid for purchase of $25,000 U. S. Liberty Loan bonds	12.50		
		337.15	
			$206,038.59

INVESTMENTS.

United States Liberty Loan bonds, par value $38,000, carried at	$37,040.00	
City of Springfield bonds	76,000.00	
Municipal bonds	34,000.00	
Railroad bonds	26,000.00	
Cash in bank at interest	32,998.59	
		$206,038.59

SCHOOL LOANS.

$968,000, Twenty Year School Loans, maturing as follows:—

$20,000 3½% bonds, due December 1, 1919.
125,000 3 % bonds, due June 1, 1920.
125,000 3½% bonds, due September 1, 1921.
55,000 3½% bonds, due October 1, 1922.
40,000 3½% bonds, due September 1, 1923.
396,000 3½% bonds, due January 1, 1925.
207,000 4 % bonds, due November 1, 1926.

RECEIPTS.

Amount on hand at last report		$709,021.95	
Appropriation of City Council received November 15, 1919		30,000.00	
Interest on bank balances		91.90	
Interest on investments		25,852.35	
Addition of difference between price paid and par value of bonds bought during the year		279.50	
		$765,245.70	
Accrued interest paid on bonds—charged off	$260.64		
Premium paid on bonds—charged off	10.00		
		270.64	
			$764,975.06

INVESTMENTS.

United States Liberty Loan bonds	$101,000.00	
City of Springfield bonds	383,500.00	
Municipal bonds	147,000.00	
Massachusetts, Commonwealth of, bonds	5,000.00	
Railroad bonds	81,000.00	
Street Railway bonds	2,500.00	
Cash in bank at interest	44,975.06	
		$764,975.06

SEWER LOAN, 1900.

Loan $142,000, 3% bonds, June 1, 1900, 30 years.

RECEIPTS.

Amount on hand at last report	$80,733.97	
Appropriation of City Council received November 15, 1919	2,000.00	
Interest on bank balances	33.86	
Interest on investments	2,469.74	
		$85,237.57

INVESTMENTS.

United States Liberty Loan bonds	$8,000.00	
City of Springfield bonds	32,000.00	
Municipal bonds	16,000.00	
Railroad bonds	19,000.00	
Street Railway bonds	5,300.00	
Cash in bank at interest	4,937.57	
		$85,237.57

PUBLIC PARK LOAN, 1903.

Court Square Extension.

Loan $125,000, 3½% bonds, June 1, 1903, 20 years.

RECEIPTS.

Amount on hand at last report	$103,302.94	
Appropriation of City Council received November 15, 1919	1,700.00	
Interest on bank balances	57.52	
Interest on investments	3,462.25	
		$108,522.71

INVESTMENTS.

United States Liberty Loan bonds	$13,000.00	
City of Springfield bonds	42,000.00	
Municipal bonds	21,000.00	
Railroad bonds	19,000.00	
Street Railway bonds	7,700.00	
Cash in bank at interest	5,822.71	
		$108,522.71

RECAPITULATION.

REVENUE FROM ALL SOURCES.

Surplus balance from Water Department, received December 30, 1918	$21,593.54	
Appropriation of City Council received November 15, 1919	33,700.00	
Interest on bank balances	275.49	
Interest on investments	39,894.34	
Addition of difference between price paid and par value of bonds bought during the year	279.50	
Total revenue	$95,742.87	
Amount on hand at last report	1,069,638.85	
		$1,165,381.72

Amount brought forward.....		$1,165,381.72	
Accrued interest paid on bonds—charged off.....	$585.29		
Premium paid on bonds—charged off.....	10.00		
Commission paid for purchase of $25,000 U. S. Liberty Loan bonds.....	12.50		
		607.79	
			$1,164,773.93

INVESTED AS FOLLOWS:—

United States Liberty Loan bonds, par value $160,000 carried at.....	$159,040		
Massachusetts, Commonwealth of, bonds.....	5,000		
Municipal and Town bonds.....	751,500		
Railroad bonds.....	145,000		
Street Railway bonds.....	15,500		
		$1,076,040.00	
Cash in bank at interest.....		88,733.93	
Total.....			$1,164,773.93

Respectfully submitted,

ROBERT O. MORRIS,
A. WILLARD DAMON,
A. B. WALLACE,
Commissioners of the Sinking Funds.

ELIPHALET T. TIFFT, *Treasurer.*

REPORT OF THE MANAGERS

OF THE

Dr. DAVID P. SMITH FUND

FOR THE YEAR ENDING DECEMBER 31, 1919.

To His Honor, the Mayor, and the City Council:—

The managers present herewith their seventh report, which deals with the expenditure of the income from the Dr. David P. Smith Fund for the past year.

Reference is made to the first report published in the Municipal Register of 1914 for a history of the fund, its purpose and method of distribution.

The Treasurer's summary is as follows:—

Balance in fund January 1, 1919		$717.10
Income received during 1919		1,332.82
		$2,049.92
Expended for aid of sick children	$1,546.26	
Union Trust Company for services	100.00	
		1,646.26
Balance on hand January 1, 1920		$403.66

During the past year the Dr. David P. Smith Fund paid for medical and surgical attention given 115 children.

To fully illustrate the purpose for which this fund was intended we will cite one case aided during the past year; that of a boy ten years old, who had not been able to walk for six years, following an attack of infantile paralysis. This child was entirely helpless and undeveloped from the knees down. His parents were financially unable to provide the special treatment and observation required. Under the auspices of the Smith Fund the boy was sent to the Children's Hospital of Boston, for care and treatment, which included operations, massaging and the

tedious endurance of weights, plaster casts, etc. At the end of four months he was sent home able to walk with the aid of braces. At present he is attending school, half sessions, and his legs are showing considerable development, which, if it continues, will enable him to run about and enjoy life like other children without artificial aids.

This case exemplifies the primary intent of the fund, to alleviate child suffering and make life worth living for those who otherwise would be compelled to go handicapped through life.

Respectfully submitted,

ATHUR A. ADAMS, *Mayor*,
WILLIAM J. QUILTY, *Chief of Police*,
ELIPHALET T. TIFFT, *City Treasurer*,
Managers.

E. T. TIFFT,
Treasurer and Secretary.

CITY TREASURER'S REPORT.

NOVEMBER 30, 1919.

With Certificate of City Auditor Attached.

CITY TREASURER'S REPORT

CITY OF SPRINGFIELD, MASS.
CITY TREASURER'S OFFICE, December 29, 1919.

To His Honor, the Mayor, and the City Council:—

I have the honor to submit herewith the annual report of the City Treasurer, showing the operation and condition of the City Treasury and Sinking Funds; and presenting other information relative to finances of the City of Springfield for the fiscal year ending November 30, 1919.

The total operations of the City Treasury for the fiscal year 1919 are summarized as follows:—

CASH RECEIPTS.		CASH PAYMENTS.	
From Revenue sources	$8,947,416.29	For Revenue purposes, as per Treasury Warrants	$9,035,156.85
From Non-Revenue sources	1,467,220.52	For Non-Revenue purposes, as per Treasury Warrants	1,216,880.76
	$10,414,636.81		$10,252,037.61
Cash balance December 1, 1918	734,536.49	Cash on hand November 30, 1919	897,135.69
	$11,149,173.30		$11,149,173.30

The following statement gives more detail in reference to receipts and payments.

REVENUE CASH RECEIPTS.

From Collector:—	
Taxes of 1916	$21.36
Taxes of 1917	43,105.61
Taxes of 1918	836,764.10
Taxes of 1919	3,523,855.61
Amount carried forward,	$4,403,746.68

Amount brought forward,	$4,403,746.68	
Excise Tax, Springfield Street Railway Co., 1918	20,185.84	
Excise Tax, Springfield Street Railway Co., 1919	15,196.98	
Taxes paid after abatement	16.85	
Street Watering Taxes, 1917	348.82	
Street Watering Taxes, 1918	8,324.62	
Street Watering Taxes, 1919	30,131.27	
Water sales	463,211.39	
Water, miscellaneous sales	49,568.71	
Department bills collected	359,735.14	
Interest on taxes, bank balances, and department bills	33,071.16	
Official fees	4,931.76	
Auditorium rentals	11,669.00	
Organ rentals	90.00	
School halls' rentals	561.00	
Licenses, Sunday theater	7,210.00	
Licenses, theater	1,125.00	
Licenses, dance, elevator, exhibition, etc.	1,067.50	
Licenses issued by Police Commissioners.	7,320.75	
Licenses issued by the Board of Health.	43.00	
		$5,417,555.47
From the Commonwealth of Massachusetts:—		
Corporation tax, public service, balance of 1918	$1,886.86	
Corporation tax, business, balance of 1918	34,987.40	
Corporation tax, business on account, 1919	297,710.66	
Corporation tax, public service, on account, 1919	42,671.46	
Income tax, balance of 1917	18,625.00	
Income tax, balance of 1918	37,250.00	
Income tax, general purposes, on account, 1919	214,655.50	
Income tax, general School Fund—on account of 1919	135,071.15	
Amounts carried forward,	$782,858.03	$5,417,555.47

Amounts brought forward,	$782,858.03	$5,417,555.47
National Bank Tax of 1919	6,922.90	
Reimbursement of State and Military aid	41,387.95	
Vocational School, State appropriation	10,161.34	
Vocational School, Smith Hughes fund, federal funds for vocational education.	1,174.41	
		842,504.63
From County Treasurer, Dog fund of 1918 for City Library Association		4,859.54
Premium on Bonds: $500,000 Dwight street widening and extension loan bonds dated December 1, 1918	$1,750.00	
$50,000 Sewer loan 1919 bonds, dated July 1,1919	1,330.50	
$627,000 School loan 1919 bonds, dated November 1,1919	6,583.50	
Interest on Treasurer's bank balances and accrued interest on bonds	22,394.00	
Premium on temporary loans	21.00	
High Schools' Lunch fund, sale of lunches	38,959.16	
City Clerk's official fees	3,068.00	
Sealer's fees	1,094.03	
Licenses collected by City Treasurer:—		
Liquor	44,611.40	
Liquor, from transfer	234.25	
Sunday sales, Common Victualers and Innholders	1,675.00	
Milk	553.00	
License Commissioners, recording licenses	551.00	
Hawkers and peddlers	350.00	
Return of money advanced sundry departments for petty cash expenses	5,800.00	
Interest on Trust Funds:—		
Court Square Extension	1,348.68	
Sherman D. Porter	756.08	
Helen M. Hosley	322.30	
Gurdon Bill	177.55	
Amounts carried forward,	$131,579.45	$6,264,919.64

Amounts brought forward,	$131,579.45	$6,264,919.64
McKinley Monument	25.49	
Wm. H. Smith	25.34	
C. S. Marsh	12.87	
Sale of Trust Fund Investments:—		
$20,000 4¼% Liberty Bonds, Court Square Extension fund at $92.24	18,448.00	
$10,500 4¼% Liberty Bonds, Sherman Porter fund at $94.20	9,891.00	
$4,500 4¼% Liberty Bonds, Helen M. Hosley fund at $94.20	4,239.00	
Accrued interest on above bonds	147.57	
Departmental receipts, revenue	17,613.86	
Departmental receipts, refunds	4,198.31	
Streets and Engineering, transfer from non-revenue cash:—		
Dwight street widening and extension	117,856.64	
Surface sewer, 1919 account	20,713.99	
Water street widening	11,469.73	
Fulton street widening	3,809.39	
Public Buildings, transfer from non-revenue cash, Washington School	400.23	
Investments, transfer from Porter Lake and approaches	2,422.00	
Porter Lake approaches, transfer from trust funds	39,643.78	
		382,496.65
Total receipts		$6,647,416.29
Temporary loans in anticipation of revenue		2,300,000.00
Cash on hand December 1, 1918		311,186.65
		$9,258,602.94

REVENUE CASH PAYMENTS.

Payments as per Treasury Warrants, Nos. 89-90 in 1918 and 1-91½ inclusive in 1919	$9,035,156.85	
Cash on hand November 30, 1919	223,446.09	
		$9,258,602.94

NON-REVENUE CASH RECEIPTS

Funded Debt:—		
Dwight Street Widening and Extension Loan, 20 years serial 4% coupon or registered bonds, dated December 1, 1918, payable $10,000 each year 1919 to 1938, inclusive, Act of 1917, Chapter 203	$200,000.00	
Dwight Street Widening and Extension Loan, 2d issue of 1918, 20 years serial 4½% coupon or registered bonds, dated December 1, 1918, payable $25,000 each year 1919 to 1938, inclusive, Act of 1917, Chapter 203	500,000.00	
Sewer Loan, 1919, 25 years serial 4½% registered bonds, dated July 1, 1919, payable $2,000 each year 1920 to 1944, inclusive	50,000.00	
School Loan, 1919, 19 years serial 4¼% coupon or registered bonds, dated November 1, 1919, payable $33,000 each year 1920 to 1938, inclusive	627,000.00	
		$1,377,000.00
Forest Park School Addition, refund by United Electric Light Co. for change of motors	$506.50	
Transfer from revenue cash:—		
Fulton Street Widening	33,936.47	
Water Street Widening	7,415.41	
Washington School	9,862.14	
Forest Park School, addition	6,500.00	
Homer Street School, addition and alteration	23,500.00	
Amounts carried forward,	$81,720.52	$1,377,000.00

Amounts brought forward,	$81,720.52	$1,377,000.00
Brightwood School, addition	7,000.00	
Chestnut Street School, addition	1,500.00	
		90,220.52
Total receipts		$1,467,220.52
Cash on hand December 1, 1918		423,349.84
		$1,890,570.36

NON-REVENUE CASH PAYMENTS.

Payments as per Treasury Warrants, Nos. 1 to 91½, inclusive	$1,216,880.76	
Cash and vouchers on hand November 30, 1919	673,689.60	
		$1,890,570.36

TEMPORARY LOANS.

Made in Anticipation of Revenue and Paid within One Year.

1919, Jan.	17—	$500,000 due November 11, 1919, J. P. Morgan & Co., New York, discounted at	4.08%
March	21—	300,000 due November 11, 1919, Salomon Bros. & Hutzler, New York, discounted at	4.18%
April	11—	700,000 due November 11, 1919, Old Colony Trust Co., Boston, discounted at	4.53%
July	12—	600,000 due November 20, 1919, Salomon Bros. & Hutzler, New York, discounted at	4.20%
Sept.	15—	100,000 due November 5, 1919, Springfield Safe Deposit & Trust Co., discounted at	4.50%
Sept.	29—	50,000 due November 5, 1919, Third National Bank, Springfield, discounted at	4.50%
Sept.	29—	50,000 due November 5, 1919, Union Trust Co., Springfield, discounted at	4.50%
		$2,300,000	

STATEMENT OF BONDED DEBT AND SINKING FUNDS, 1919.

SHOWING DEBT AND SINKING FUNDS AT BEGINNING AND CLOSE OF FISCAL YEAR, AND ALL TRANSACTIONS DURING THAT PERIOD

	Total Debt.	Divisions of Total Indebtedness.			Total Net Debt.	Net Debt Exclusive of Water Debt.	Net Debt Within Limit.	Net Water Debt.	Sinking Funds.	
		Debt Within Limit.	Debt Outside Limit	Water Debt.					General Sinking Fund	Water Sinking Fund
December 1, 1918.....	$9,026,500.00	$4,290,500.00	$2,707,000.00	$2,029,000.00	$7,956,861.15	$6,104,441.14	$3,397,441.14	$1,852,420.01	$893,058.86	$176,579.99
Bonds paid in 1919.....	428,000.00	282,000.00	107,000.00	89,000.00	.....	.....	.....	.....	.....	.....
Bonds issued in 1919.....	1,377,000.00	677,000.00	700,000.00	.....	.....	.....	.....	.....	.....	.....
Appropriations for General Sinking Fund.....	.....	.....	.....	.....	.....	.....	.....	.....	$3,700.00	.....
Surplus in Water Dept., 1918, available for Sinking Fund.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	21,593.54
Earnings in General Sinking Fund.....	.....	.....	.....	.....	.....	.....	.....	.....	31,976.48	.....
Earnings in Water Sinking Fund.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7,865.06
Increase in General and Water Sinking Funds....	.....	.....	.....	.....	.....	.....	.....	.....	65,676.48	29,458.60
Increase in Total and Net City Debt.....	949,000.00	.....	.....	.....	853,864.92	.....	.....	.....	.....	.....
Increase of Debt Within and Outside of Limit....	.....	445,000.00	593,000.00	.....	.....	.....	.....	.....	.....	.....
Decrease in Total and Net Water Debt.....	.....	.....	.....	89,000.00	.....	.....	.....	118,458.60	.....	.....
Increase in Net Debt Within Limit.....	.....	.....	.....	.....	.....	.....	379,323.52	.....	.....	.....
Increase of Net Debt Exclusive of Water Debt...	.....	.....	.....	.....	.....	972,323.52	.....	.....	.....	.....
November 30, 1919.....	$9,975,500.00	$4,785,500.00	$3,300,000.00	$1,940,000.00	$8,810,726.07	$7,076,764.66	$3,776,764.66	$1,733,961.41	$958,735.34	$206,088.59

Outstanding Bonds secured by Sinking Funds $1,510,000.00.
Outstanding Serial Bonds.....8,465,500.00.
Total City Debt.....$9,975,500.00.

CITY OF SPRINGFIELD, MASS.

DECEMBER 1, 1919

STATEMENT OF THE BONDED DEBT AND SINKING FUNDS

LOANS. NAME AND DESCRIPTION.	Date of Issue.	INTEREST. Rate %	INTEREST. Payable	PRINCIPAL. When Due.	PRINCIPAL. Outstanding.	Sinking Funds.
City Hall Loan, 1907, Reg	1907	4	J. & J.	July 1, 1908 to July 1, 1927. $9,000 even years, $8,000 odd years.	$68,000.00	
Dwight and Water Streets, Railroad Underpass Loan, Cou	1913	4	May & N.	$14,000 due Nov. 1, 1914 to Nov. 1, 1923. $13,000 due Nov. 1, 1924 to Nov. 1, 1943.	316,000.00	
Dwight and Water Streets, Railroad Underpass Loan, Act of 1913, Cou. or Reg	1915	4	May & N.	Nov. 1, 1916 to Nov. 1, 1935. $10,000 annually.	160,000.00	
Dwight, Willow and Hillman Street Extension.	1915	4	May & N.	Nov. 1, 1916 to Nov. 1, 1925. $7,000 annually.	42,000.00	
Dwight Street Widening and Extension, C. or R.	1917	4½	Jne. & D.	Dec. 1, 1918 to Dec. 1, 1937. $40,000 annually.	760,000.00	
Dwight St. Widening and Exten., Cou. or Reg.	1918	4	Jne. & D.	Dec. 1, 1919 to Dec. 1, 1938. $10,000 annually.	200,000.00	
Dwight St. Widening and Exten., Cou. or Reg.	1919	4½	Jne. & D.	Dec. 1, 1919 to Dec. 1, 1938. $25,000 annually.	500,000.00	
Fire and Police Buildings Loan, Reg	1910	4	A. & O.	Oct. 1, 1911 to Oct. 1, 1930. $17,000 annually.	187,000.00	
Fulton Street Loan, Cou. or Reg	1914	4½	May & N.	$20,000 each yr., Nov. 1915 to 1934	300,000.00	
Land and Buildings Loan, Cou. or Reg	1917	4½	May & N.	Nov. 1, 1918 to Nov. 1, 1937 inc. $15,000 annually	270,000.00	
Locust Street Extension, Reg	1911	4	A. & O.	Oct. 1, 1912 to Oct. 1, 1921. $2,000 annually	4,000.00	
Municipal Building Loan, Act of 1909, Cou. or Reg.	1909	3½	May & N.	Nov. 1, 1910 to Nov. 1, 1949. $15,000 annually.	450,000.00	
Municipal Building Loan, Act of 1909, Cou. or Reg.	1910	4	May & N.	Nov. 1, 1911 to Nov. 1, 1950. $10,000 annually.	310,000.00	
Municipal Building Loan, Act of 1912, Cou. or Reg.	1912	4	May & N.	$14,000 due Nov. 1, 1913 to 1917 inc. and $13,000 Nov. 1, 1918 to 1952 inc	429,000.00	
Municipal Building Loan, Act of 1912	1914	4	May & N.	$5,000 each yr., Nov. 1915 to 1954	175,000.00	
Municipal Loan, Reg	1913	4¼	May & N.	$6,500 due Nov. 1, 1914 and $6,000 Nov. 1, 1915 to Nov. 1, 1918; $5,000, Nov. 1, 1919 to Nov. 1, 1923	20,000.00	
Public Parks, Reg	1903	3½	Jne. & D.	June 1, 1923	125,000.00	$108,522.71
Public Buildings Loan, Reg	1911	4	A. & O.	Oct. 1, 1912 to Oct. 1, 1931. $16,000 annually.	192,000.00	
School Bonds 1900, Reg	1900	3½	Jne. & D.	December 1, 1919	20,000.00	
" " **1900, Cou. or Reg**	1900	3	Jne. & D.	June 1, 1920	125,000.00	
" " **1901, Reg**	1901	3½	Mch. & S.	September 1, 1921	125,000.00	
" " **1902,** "	1902	3½	A. & O.	October 1, 1922	55,000.00	764,975.06
" " **1903, Cou. or Reg**	1903	3½	M. & S.	September 1, 1923	40,000.00	
" **Technical High, Reg**	1905-6	3½	J. & J.	January 1, 1925	342,000.00	
" **White Street, Reg**	1905	3½	J. & J.	January 1, 1925	54,000.00	
" **Loan, 1906, Cou. or Reg**	1906	4	May & N.	November 1, 1926	207,000.00	

STATEMENT OF THE BONDED DEBT AND SINKING FUNDS—*Continued.*

LOANS. NAME AND DESCRIPTION.	Date of Issue.	INTEREST. Rate %	INTEREST. Payable.	PRINCIPAL. When Due.	PRINCIPAL. Outstanding.	Sinking Funds.
School Bonds, Commercial High, Cou.	1913	4	May & N.	$25,000 due Nov. 1, 1914 to Nov. 1, 1933	$350,000.00	
" " Commercial High, Cou.	1914	4½	May & N.	$8,000 Nov. 1, 1915 to 1924. $7,000 Nov. 1, 1925 to 1934.	110,000.00	
" " Commercial High, Cou.	1915	4	May & N.	$18,000 Nov. 1, 1916 to 1925. $17,000 Nov. 1, 1926 to 1935.	278,000.00	
" " Kensington Avenue, 1908, Reg.	1908	4	A. & O.	Oct. 1, 1909 to Oct. 1, 1928. $5,500 annually	49,500.00	
" " Lincoln, Reg.	1909	4	A. & O.	Oct. 1, 1910 to Oct. 1, 1929. $5,000 annually	50,000.00	
" Buckingham, Reg.	1913	4¼	May & N.	$11,000 due Nov. 1, 1914 to Nov. 1, 1933	154,000.00	
" Reg.	1913	4¼	May & N.	$2,000 due Nov. 1, 1914 to 1932, and $1,500 Nov. 1, 1933	27,500.00	
" Bonds, 1916, Reg.	1916	4	M. & N.	Nov. 1, 1917 to Nov. 1, 1936. $27,000 annually	459,000.00	
" Bonds, 1919, Cou. or Reg.	1919	4¼	Jne. & D.	Nov. 1, 1920 to Nov 1, 1933. $33,000 annually	627,000.00	
School and Fire Loan	1914	4½	May & N.	$13,000 Nov. 1915 to 1924. $12,000 Nov. 1925 to 1934.	185,000.00	
Sewer Bonds, Cou. or Reg.	1900	3	Jne. & D.	June 1, 1930	142,000.00	$85,237.57
" " 1901, Reg.	1901	3½	Mch. & S.	Sept. 1, 1902 to 1926. $1,000 annually	7,000.00	
" Loan, 1904, "	1904	3½	F. & A.	Aug. 1, 1905 to 1924. $2,000 annually	10,000.00	
" " 1908, "	1908	4	A. & O.	Oct. 1, 1909 to Oct. 1, 1928. $2,500 annually	22,500.00	
" " Reg.	1913	4	May & N.	$2,000 due Nov. 1, 1914 to Nov. 1, 1933	38,000.00	
" Bonds, Reg.	1919	4½	J. & J.	July 1, 1920 to July 1, 1944. $2,000 annually	50,000.00	
Water Bonds. Coupon	1890	3½	A. & O.	October 1, 1920	125,000.00	206,038.59
" "	1893	4	A. & O.	October 1, 1923	150,000.00	
" " Little River, Cou. or Reg.	1907	4	J. & J.	Jan. 1, 1910 to Jan. 1, 1936. $10,000 annually	170,000.00	
" " Little River, Cou. or Reg.	1908	4	J. & J.	Jan. 1, 1911 to Jan. 1, 1937. $10,000 annually	180,000.00	
" " Little River, Cou. or Reg.	1909	3½	J. & J.	Jan. 1, 1912 to Jan. 1, 1938. $40,000 annually	760,000.00	
" " Little River, Cou. or Reg.	1910	3½	J. & J.	Jan. 1, 1913 to Jan. 1, 1939. $14,000 annually	280,000.00	
" " Little River, Cou. or Reg.	1913	4½	May & N.	$10,000 due Nov. 1, 1914 to Nov. 1, 1933	190,000.00	
" " Little River, Cou. or Reg.	1916	3½	M. & N.	Nov. 1, 1917 to Nov. 1, 1936. $5,000 annually	85,000.00	
Totals					$9,975,500.00	$1,164,773.98

PURPOSES FOR WHICH OUTSTANDING BONDED DEBT WAS CREATED.

Water Works (exempt)			$1,940,000.00
Schoolhouses:—			
Technical High School	$444,000.00		
High School of Commerce	738,000.00		
Other Schools	2,340,300.00		
		$3,522,300.00	
Dwight and Water streets railroad underpasses (exempt)		476,000.00	
Dwight-Willow and Hillman street extensions		42,000.00	
Dwight street widening and extension (exempt)		1,460,000.00	
Emery street storehouse (addition)		19,600.00	
Fire department buildings		85,074.00	
Fire and Police headquarters		187,000.00	
Fulton street widening		300,000.00	
Health department hospital		10,800.00	
Locust street extension		4,000.00	
Laundry and heating plant, almshouse		15,826.00	
Municipal heating plant		46,800.00	
Municipal Group buildings (exempt)		1,364,000.00	
Municipal Group, land		68,000.00	
Parks and buildings		146,600.00	
Sewers		269,500.00	
Wayfarers' Lodge		18,000.00	
Debt exclusive of water debt			8,035,500.00
Total debt			$9,975,500.00

The above bonded debt is issued at the following rates of interest:—

$267,000 at 3 per cent. per annum.
2,478,000 at 3½ per cent. per annum.
4,037,000 at 4 per cent. per annum.
1,018,500 at 4¼ per cent. per annum.
2,175,000 at 4½ per cent. per annum.

Total, $9,975,500 at an average interest rate of 3.98 per cent. per annum.

AMOUNT OF DEBT CITY CAN INCUR WITHIN STATUTORY LIMIT.

2½ per cent. of $200,923,138, average valuation for three preceding years		$5,023,078.00
Bonded debt other than water debt	$8,035,500.00	
Less debt exempted by special acts of the legislature	3,300,000.00	
	$4,735,500.00	
Less general sinking funds	958,735.00	
		3,776,765.00
Debt city can incur in 1920		$1,246,313.00

The funded debt maturing in 1920 totals $749,000. Of this amount $89,000 is Water Debt, which will be paid from receipts of the Water Department, $270,000 for which sinking funds are provided and $390,000 serial bonds for sundry purposes, that will have to be appropriated for and paid from the tax levy.

The sinking funds will require an appropriation of $28,500.

The following table compiled from previous reports, compares the appropriations, funded water debt, funded debt other than water, sinking funds, tax rate, and the assessors' valuation of real and personal property from the year 1890 to 1919 inclusive:—

Year.	Appropriations.	Water Debt.	Other Debt.	Sinking Funds.	Tax Rate.	Assessors' Valuation, Real and Personal.
1890	$507,450	$1,325,000	$124,000		$12.40	$44,493,633
1891	574,425	1,325,000	214,000	$22,734	12.50	48,329,634
1892	609,715	1,325,000	275,000	45,259	13.00	50,780,987
1893	664,050	1,675,000	263,000	75,202	12.80	55,239,919
1894	664,000	1,650,000	280,000	112,207	12.00	56,449,425
1895	732,300	1,625,000	319,500	192,297	12.20	59,033,141
1896	801,100	1,600,000	339,000	254,340	12.80	61,416,091
1897	872,300	1,575,000	783,500	357,471	13.00	64,898,379
1898	909,650	1,550,000	997,000	411,855	13.80	65,699,713
1899	978,175	1,525,000	968,800	506,654	13.60	69,869,847
1900	1,030,000	1,500,000	1,227,100	595,282	13.80	72,358,481
1901	1,075,500	1,475,000	1,379,900	711,033	14.00	74,338,927
1902	1,130,650	1,450,000	1,362,700	794,876	14.50	74,838,065
1903	1,170,000	875,000	1,480,500	296,461	14.60	77,207,898
1904	1,230,000	835,000	1,573,300	397,141	14.60	78,868,058
1905	1,270,000	595,000	1,809,100	384,424	15.40	80,904,476
1906	1,310,000	555,000	1,987,900	435,448	15.00	86,505,181
1907	1,360,000	785,000	2,059,700	504,805	15.00	92,378,624
1908	1,510,450	1,015,000	2,377,500	591,028	15.50	97,098,308
1909	1,614,800	2,095,000	3,230,300	714,592	14.80	107,875,780
1910	1,830,420	2,463,000	3,882,100	842,991	15.80	118,457,151
1911	2,039,381	2,443,000	4,107,900	968,067	16.50	127,249,343
1912	3,016,543	2,383,000	4,503,700	1,085,186	15.50	151,384,317
1913	3,400,279	2,359,000	5,626,500	1,017,128	15.80	169,743,933
1914	3,555,308	2,275,000	6,422,800	1,148,471	16.50	178,296,823
1915	3,807,803	2,191,000	6,759,600	1,246,389	18.20	188,941,408
1916	4,178,348	2,207,000	7,015,400	1,368,608	17.80	197,915,182
1917	4,318,797	2,118,000	6,514,200	974,956	17.80	195,145,782
1918	4,508,123	2,029,000	6,977,500	1,069,638	18.50	201,276,832
1919	5,149,064	1,940,000	8,035,500	1,164,773	21.20	206,541,957

Beginning with the year 1917 the total of Assessors' valuation was reduced by a portion of personal property being valued and taxed by the State.

Respectfully submitted,

ELIPHALET T. TIFFT,
City Treasurer.

I hereby certify that I have examined, in detail, the foregoing abstracts from the accounts of the City Treasurer; that the receipts from various sources, as stated, are correct; that all expenditures are supported by warrants regularly approved by the proper officials, and that the condition of various accounts—including cash on hand and in banks—on November 30, 1919, has been verified by comparison with the records of this office.

WM. G. McINTYRE,
City Auditor.

SPRINGFIELD, MASS., December 27, 1919.

CITY ORDINANCES FOR 1919.

CITY OF SPRINGFIELD.

ORDINANCES OF 1919

CHAPTER I.

AN ORDINANCE

PROVIDING ADDITIONAL TEMPORARY COMPENSATION FOR CERTAIN MEMBERS OF THE POLICE DEPARTMENT.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. Section 1 of Chapter 10 of the ordinances of 1918, approved August 5, 1918, is hereby amended so as to read as follows:—

SECTION 1. From and after the first day of September in the current year, the following named members of the Police Department shall, until the first day of December in the year nineteen hundred and nineteen, receive additional temporary compensation at the rates of the respective sums below set forth:—

Chief	$200 a year
Deputy Chief	200 a year
Captain of Detectives	200 a year
Captains	200 a year, each
Detective Lieutenants	200 a year, each
Lieutenants	200 a year, each
Detective Sergeants	200 a year, each
Sergeants	200 a year, each
Patrolmen, grade A	200 a year, each
Patrolmen, grade B	200 a year, each
Patrolmen, grade C	200 a year, each
Patrolmen, Reserve and Special	50 cents a day, each

SECTION 2. All ordinances and parts of ordinances inconsistent herewith are hereby repealed.

Approved, April 21, 1919.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER II.

AN ORDINANCE

ESTABLISHING THE SALARIES OF THE CITY SOLICITOR, THE ASSISTANT CITY SOLICITOR, THE CITY PROSECUTING ATTORNEY AND THE BOARD OF ASSESSORS.

Be it ordained by the City Council of Springfield, as follows:—

SECTION 1. The salaries of the City Solicitor, the Assistant City Solicitor, the City Prosecuting Attorney and the Board of Assessors are hereby established as follows to be effective from April 1, 1919.

City Solicitor, four thousand dollars ($4,000) a year.
Assistant City Solicitor, two thousand dollars ($2,000) a year.
City Prosecuting Attorney, two thousand dollars ($2,000) a year.
Board of Assessors, three thousand dollars ($3,000) a year for each member.

SECTION 2. All ordinances and parts of ordinances inconsistent herewith are hereby repealed.

Approved, April 21, 1919.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER III.

AN ORDINANCE

PROVIDING ADDITIONAL TEMPORARY COMPENSATION FOR CERTAIN MEMBERS OF THE FIRE DEPARTMENT.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. Section 1 of Chapter 8 of the ordinances of 1918, approved August 5, 1918, is hereby amended so as to read as follows:—

SECTION 1. From and after the first day of September in the current year the following named members of the Fire Department shall, until the first day of December in the year nineteen hundred and nineteen, receive additional temporary compensation at the rates of the respective sums below set forth:—

Chief	$200 a year
Deputy Chief	200 a year
Districts Chiefs	200 a year, each
Superintendent of Fire Alarm	200 a year
Superintendent of Repairs	200 a year
Captains	200 a year, each

Lieutenants	$200 a year, each
Engineers	200 a year, each
Firemen, grade A	200 a year, each
Firemen, grade B	200 a year, each
Firemen, grade C	200 a year, each

SECTION 2. All ordinances and parts of ordinances inconsistent herewith are hereby repealed.

Approved, April 21, 1919.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER IV.

AN ORDINANCE

PROVIDING ADDITIONAL TEMPORARY COMPENSATION FOR CERTAIN OFFICIALS.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. Section 1 of Chapter 11 of the ordinances of 1918, approved August 5, 1918, is hereby amended so as to read as follows:—

SECTION 1. From and after the first day of August in the current year the following named officers shall, until the first day of December in the year nineteen hundred and nineteen, receive additional compensation at the rates of the respective sums below set forth:—

City Auditor	$200 a year
Building Commissioner	200 a year
Inspector of Plumbing	100 a year
Assistant Inspector of Plumbing	100 a year
Agent of the Overseers of the Poor	200 a year
City Physician	200 a year
City Collector	200 a year
City Clerk	200 a year
Agent of the Board of Health	200 a year
Health Physician	100 a year
City Treasurer	200 a year

SECTION 2. All ordinances and parts of ordinances inconsistent herewith are hereby repealed.

Approved, April 21, 1919.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER V.

AN ORDINANCE

ESTABLISHING THE SALARIES OF CERTAIN DIVISION SUPERINTENDENTS IN THE DEPARTMENT OF STREETS AND ENGINEERING.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. The following salaries are hereby established for division superintendents in the department of streets and engineering to be effective from April 1, 1919:—

Division Superintendent of Sewers, twenty-five hundred dollars ($2,500) a year.

Division Superintendent of Street Lighting, two thousand dollars ($2,000) a year.

Division Superintendent of Ashes, Garbage and Refuse Collection, two thousand dollars ($2,000) a year.

SECTION 2. All ordinances and parts of ordinances inconsistent herewith are hereby repealed.

Approved, April 21, 1919.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER VI.

AN ORDINANCE

ESTABLISHING THE OFFICE AND SALARY AND FIXING THE DUTIES OF THE DEPUTY SOLDIERS' RELIEF COMMISSIONER.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. There is hereby created the office of deputy soldiers' relief commissioner.

SECTION 2. A deputy soldiers' relief commissioner shall be appointed by the soldiers' relief commissioner subject to approval of the mayor and confirmation by the city council. Before entering upon the duties of his office he shall be sworn to the faithful discharge thereof. He shall be removable by the city council at its pleasure and unless so removed shall hold office for the term for which the soldiers' relief commissioner appointing him was elected and until his successor is chosen and qualified. A vacancy in said office may be filled for an unexpired term at any time in the manner above provided for an original appointment.

SECTION 3. The salary of the deputy soldiers' relief commissioner is hereby established at fifteen hundred dollars per annum.

SECTION 4. The deputy soldiers' relief commissioner shall perform such duties as may be assigned to him from time to time by the soldiers' relief commissioner. If by reason of illness, absence or other cause the soldiers' relief commissioner be temporarily unable to perform the duties of his office the deputy soldiers' relief commissioner shall perform the same until such disability ceases and if a vacancy occur in the office of soldiers' relief commissioner the deputy soldiers' relief commissioner shall perform the duties of said office until such vacancy be filled. The deputy soldiers' relief commissioner shall also perform such other duties as the city council or the board of aldermen may from time to time direct.

Approved, June 9, 1919.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER VII.

AN ORDINANCE

ESTABLISHING THE SALARY OF THE MATRONS IN THE POLICE DEPARTMENT.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. The salary of the matrons in the Police Department is hereby established at one thousand dollars ($1,000) per annum each, to be in effect from July 1, 1919.

SECTION 2. All ordinances or parts of ordinances inconsistent herewith are hereby repealed.

Approved, June 30, 1919.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER VIII.

AN ORDINANCE

ESTABLISHING THE SALARIES OF CERTAIN MEMBERS OF THE FIRE DEPARTMENT.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. The compensation, salaries or wages of certain members of the fire department are hereby established at the rates of the respective sums below set forth to be effective from September 1, 1919.

Chief thirty-six hundred dollars ($3,600) a year.
Deputy chief three thousand dollars ($3,000) a year.
District chiefs twenty-five hundred and fifty dollars ($2,550) a year.
Captains twenty-two hundred and fifty dollars ($2,250) a year.
Captain and drill master twenty-three hundred and fifty dollars ($2,350) a year.
Lieutenants two thousand and fifty dollars ($2,050) a year.
Engineers eighteen hundred ninety-four dollars and fifty cents ($1,894.50) a year.
Superintendent of fire alarm nineteen hundred dollars ($1,900) a year.
Superintendent of repairs twenty-two hundred and fifty dollars ($2,250) a year.
Hose and ladder men, Grade A five dollars ($5.00) a day.
Hose and ladder men, Grade B four dollars and seventy-two cents ($4.72) a day.
Hose and ladder men, Grade C four dollars and forty-four cents ($4.44) a day.

SECTION 2. All ordinances and parts of ordinances inconsistent herewith are hereby repealed.

Approved, September 29, 1919.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER IX.

AN ORDINANCE

ESTABLISHING THE SALARIES OF CERTAIN MEMBERS OF THE POLICE DEPARTMENT.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. The compensation, salaries or wages of certain members of the police department are hereby established at the rates of the respective sums below set forth to be effective from September 1, 1919.

Chief thirty-six hundred dollars ($3,600) a year.
Deputy chief twenty-six hundred and fifty dollars ($2,650) a year.
Captain of detectives twenty-three hundred and fifty dollars ($2,350) a year.
Captains twenty-two hundred and fifty dollars ($2,250) a year.
Detective lieutenants two thousand and fifty dollars ($2,050) a year.
Lieutenants two thousand and fifty dollars ($2,050) a year.
Sergeants nineteen hundred and fifty dollars ($1,950) a year.
Patrolmen, Grade A five dollars ($5.00) a day.
Patrolmen, Grade B four dollars and seventy-two cents ($4.72) a day.

Patrolmen, Grade C four dollars and forty-four cents ($4.44) a day.
Reservemen four dollars ($4.00) a day.
Superintendent of police signal system six hundred dollars ($600) a year.

SECTION 2. All ordinances and parts of ordinances inconsistent herewith are hereby repealed.

Approved, September 29, 1919.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER X.

AN ORDINANCE

ESTABLISHING THE SALARIES OF THE SEALER OF WEIGHTS AND MEASURES, THE FIRST DEPUTY SEALER OF WEIGHTS AND MEASURES, THE SECOND DEPUTY SEALER OF WEIGHTS AND MEASURES, THE SMOKE INSPECTOR, THE CLERK OF THE COMMON COUNCIL, THE MESSENGER, THE MUNICIPAL CHIME RINGER, THE REGISTRARS OF VOTERS AND THE SOLDIERS' RELIEF COMMISSIONER.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. The salaries of the sealer of weights and measures, the first deputy sealer of weights and measures, the second deputy sealer of weights and measures, the smoke inspector, the clerk of the common council, the messenger, the municipal chime ringer, the registrars of voters and the soldiers' relief commissioner are hereby established at the rates of the respective sums below set forth to be effective from September 1, 1919.

Sealer of weights and measures twenty-one hundred dollars ($2,100) a year.

First deputy sealer of weights and measures fourteen hundred and fifty dollars ($1,450) a year.
Second deputy sealer of weights and measures fourteen hundred and fifty dollars ($1,450) a year.
Smoke inspector three hundred dollars ($300) a year.
Clerk of the common council six hundred dollars ($600) a year.
Messenger two thousand ($2,000) a year.
Municipal chime ringer four hundred dollars ($400) a year.
Registrars of voters four hundred dollars ($400) a year each (3).
Soldiers' relief commissioner nineteen hundred dollars ($1,900) a year.

SECTION 2. All ordinances and parts of ordinances inconsistent herewith are hereby repealed.

Approved, September 29, 1919.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER XI.

AN ORDINANCE

ESTABLISHING THE SALARIES OF CERTAIN CITY OFFICIALS.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. The salaries of the city auditor, the city clerk, the city treasurer and the city collector are hereby established at the rates of the respective sums below set forth to be effective from September 1, 1919.

City auditor thirty-seven hundred dollars ($3,700) a year.
City clerk thirty-five hundred dollars ($3,500) a year.
City treasurer four thousand dollars ($4,000) a year.
City collector thirty-seven hundred dollars ($3,700) a year.

SECTION 2. All ordinances and parts of ordinances inconsistent herewith are hereby repealed.

Approved, September 29, 1919.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER XII.

AN ORDINANCE

ESTABLISHING THE SALARIES OF THE BUILDING COMMISSIONER, THE INSPECTOR OF PLUMBING AND THE ASSISTANT INSPECTOR OF PLUMBING.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. The salaries of the building commissioner, the inspector of plumbing and the assistant inspector of plumbing are hereby established at the rates of the respective sums below set forth to be effective from September 1, 1919.

Building commissioner four thousand dollars ($4,000) a year.
Inspector of plumbing twenty-one hundred dollars ($2,100) a year.
Assistant inspector of plumbing two thousand dollars ($2,000) a year.

SECTION 2. All ordinances and parts of ordinances inconsistent herewith are hereby repealed.

Approved, September 29, 1919.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER XIII.

AN ORDINANCE

ESTABLISHING THE SALARIES OF THE AGENT OF THE BOARD OF HEALTH, THE CITY PHYSICIAN, THE HEALTH PHYSICIAN AND THE INSPECTOR OF MILK AND VINEGAR.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. The salaries of the agent of the board of health, the city physician, the health physician and the inspector of milk and vinegar are hereby established at the rates of the respective sums below set forth to be effective from September 1, 1919.

Agent of the board of health twenty-five hundred dollars ($2,500) a year.

City physician twenty-four hundred dollars ($2,400) a year.

Health physician twenty-four hundred dollars ($2,400) a year.

Inspector of milk and vinegar eighteen hundred dollars ($1,800) a year.

SECTION 2. All ordinances and parts of ordinances inconsistent herewith are hereby repealed.

Approved, September 29, 1919.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER XIV.

AN ORDINANCE

ESTABLISHING THE SALARIES OF THE SUPERINTENDENT OF THE DEPARTMENT OF STREETS AND ENGINEERING, THE DIVISION SUPERINTENDENT OF STREETS, THE DIVISION SUPERINTENDENT OF SEWERS, THE DIVISION SUPERINTENDENT OF STREET LIGHTING, THE DIVISION SUPERINTENDENT OF ASHES, GARBAGE AND REFUSE COLLECTION AND THE DEPUTY CITY ENGINEER.

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. The salaries of the superintendent of the department of streets and engineering, the division superintendent of streets, the division

superintendent of sewers, the division superintendent of street lighting, the division superintendent of ashes, garbage and refuse collection and the deputy city engineer are hereby established at the rates of the respective sums below set forth to be effective from September 1, 1919.

Superintendent of the department of streets and engineering forty-three hundred dollars ($4,300) a year.

Division superintendent of streets thirty-two hundred dollars ($3,200) a year.

Division superintendent of sewers twenty-seven hundred dollars ($2,700) a year.

Division superintendent of street lighting twenty-two hundred dollars ($2,200) a year.

Division superintendent of ashes, garbage and refuse collection twenty-two hundred dollars ($2,200) a year.

Deputy city engineer twenty-seven hundred dollars ($2,700) a year.

SECTION 2. All ordinances and parts of ordinances inconsistent herewith are hereby repealed.

Approved, October 27, 1919.

Attest: E. A. NEWELL, *City Clerk.*

CHAPTER XV.

AN ORDINANCE

REPEALING CHAPTER 6 OF THE ORDINANCES OF 1919, ENTITLED "AN ORDINANCE ESTABLISHING THE OFFICE AND SALARY AND FIXING THE DUTIES OF THE DEPUTY SOLDIERS' RELIEF COMMISSIONER."

Be it ordained by the City Council of the City of Springfield, as follows:—

SECTION 1. Chapter 6 of the ordinances of 1919, entitled "An Ordinance Establishing the Office and Salary and Fixing the Duties of the Deputy Soldiers' Relief Commissioner" approved June 9, 1919, is hereby repealed.

Approved, November 10, 1919.

Attest: E. A. NEWELL, *City Clerk.*

TAXES.

TAXES.

TAXES—1905—WILLIAM H. C. AUGUR, COLLECTOR.

Amount of State tax committed,	$98,960.00	
Amount of County tax committed,	74,932.77	
Amount of Bank tax committed,	39,209.52	
Amount of City tax committed,	1,109,312.49	
Amount of Military Armory tax committed,	6,728.38	
Amount of Grade Crossing tax committed,	1,177.05	
Amount of Excise tax Springfield Street Railway committed,	12,132.36—	$1,342,452.47
Received of Collector as follows:—		
State tax,	$98,960.00	
County tax,	74,932.77	
Bank tax,	39,209.52	
On account of City tax,	1,096,511.34	
Military Armory tax,	6,728.38	
Grade Crossing tax,	1,177.05	
Excise tax Springfield Street Railway,	12,132.26	
Abatements,	12,801.15—	$1,342,452.47

Rate—Fifteen dollars and forty cents on one thousand dollars. Poll tax, two dollars.

Attest, ELIPHALET T. TIFFT, *City Treasurer.*

TAXES—1906—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,	$86,590.00
Amount of County tax committed,	89,968.08
Amount of Bank tax committed,	26,876.53
Amount carried forward,	$203,434.61

Amount brought forward,	$203,434.61	
Amount of City tax committed,	1,157,038.64	
Amount of Military Armory tax committed,	6,611.06	
Amount of Grade Crossing tax committed,	1,111.66	
Amount of Excise tax Springfield Street Railway committed,	12,856.06	
Amount of Special Census tax committed,	820.78—	$1,381,872.81
Received of Collector as follows:—		
State tax,	$86,590.00	
County tax,	89,968.08	
Bank tax,	26,876.53	
On account of City tax,	1,145,794.34	
Military Armory tax,	6,611.06	
Grade Crossing tax,	1,111.66	
Excise tax Springfield Street Railway,	12,856.06	
Special Census,	820.78	
Abatements,	11,244.30—	$1,381,872.81

Rate—Fifteen dollars on one thousand dollars. Poll tax, two dollars.

Attest, ELIPHALET T. TIFFT, *City Treasurer.*

TAXES—1907—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,	$103,280.00	
Amount of County tax committed,	92,566.11	
Amount of Bank tax committed,	26,073.69	
Amount of City tax committed,	1,230,789.52	
Amount of Military Armory tax committed,	6,430.43	
Amount of Excise tax Springfield Street Railway committed,	13,646.75—	$1,472,786.50
Received of Collector as follows:—		
State tax,	$103,280.00	
County tax,	92,566.11	
Bank tax,	26,073.69	
On account of City tax,	1,220,963.31	
Military Armory tax,	6,430.43	
Excise tax Springfield Street Railway,	13,646.75	
Abatements,	9,826.21—	$1,472,786.25

Rate—Fifteen dollars on one thousand dollars. Poll tax, two dollars.

Attest, ELIPHALET T. TIFFT, *City Treasurer.*

TAXES—1908—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,	$142,010.00	
Amount of County tax committed,	92,465.60	
Amount of Bank tax committed,	26,346.46	
Amount of City tax committed,	1,326,257.02	
Amount of Military Armory tax committed,	922.50	
Amount of Excise tax Springfield Street Railway committed,	13,608.62	
Amount for abating nuisance Kibbe Hollow tax committed,	785.76—	$1,602,395.96
Received of Collector as follows:—		
State tax,	$142,010.00	
County tax,	92,465.60	
Bank tax,	26,346.46	
On account of City tax,	1,313,145.20	
Military Armory tax,	922.50	
Excise tax Springfield Street Railway,	13,608.62	
Abatements,	13,463.23	
On account of abating nuisance Kibbe Hollow,	434.35—	$1,602,395.96

Rate—Fifteen dollars and fifty cents on one thousand dollars. Poll tax, two dollars.

Attest, ELIPHALET T. TIFFT, *City Treasurer.*

TAXES—1909—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,	$116,190.00	
Amount of County tax committed,	92,465.60	
Amount of Bank tax committed,	25,127.59	
Amount of City tax committed,	1,442,009.18	
Amount of Excise tax Springfield Street Railway committed,	14,214.26	
Amount for abating nuisance Kibbe Hollow tax committed,	785.76—	$1,690,792.39
Received of Collector as follows:—		
State tax,	$116,190.00	
County tax,	92,465.60	
Bank tax,	25,127.59	
On account of City tax,	1,426,950.22	
Amount carried forward,	$1,660,733.41	

Amount brought forward,	$1,660,733.41	
Excise tax Springfield Street Railway,	14,214.26	
Abatements,	15,349.67	
Abatement on account of abating nuisance Kibbe Hollow,	495.05—	$1,690,792.39

Rate—Fourteen dollars and eighty cents on one thousand dollars. Poll tax, two dollars.

Attest, ELIPHALET T. TIFFT, *City Treasurer.*

TAXES—1910—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,	$158,345.00	
Amount of County tax committed,	95,413.62	
Amount of Bank tax committed,	29,595.64	
Amount of City tax committed,	1,685,106.13	
Amount of Excise tax Springfield Street Railway committed,	14,671.37—	$1,983,131.76
Received of Collector as follows:—		
State tax,	$158,345.00	
County tax,	95,413.62	
Bank tax,	29,595.64	
On account of City tax,	1,665,597.37	
Excise tax Springfield Street Railway,	14,671.37	
Abatements,	19,508.76—	$1,983,131.76

Rate—Fifteen dollars and eighty cents on one thousand dollars. Poll tax, two dollars.

Attest, ELIPHALET T. TIFFT, *City Treasurer.*

TAXES—1911—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,	$158,345.00	
Amount of County tax committed,	107,858.85	
Amount of Bank tax committed,	33,125.83	
Amount of City tax committed,	1,907,444.59	
Amount of Excise tax Springfield Street Railway committed,	13,441.88—	$2,220,216.15

Received of Collector as follows:—

State tax,	$158,345.00	
County tax,	107,858.85	
Bank tax,	33,125.83	
On account of City tax,	1,892,321.38	
Excise tax Springfield Street Railway,	13,441.88	
Abatements,	15,123.21—	$2,220,216.15

Rate—Sixteen dollars and fifty cents on one thousand dollars. Poll tax, two dollars.

Attest, ELIPHALET T. TIFFT, *City Treasurer.*

TAXES—1912—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,	$182,027.18	
	$179,937.50	
State System of accounts,	2,089.68	
Amount of County tax committed,	105,266.09	
Amount of Bank tax committed,	28,134.82	
Amount of City tax committed,	2,130,292.54	
Amount of Excise tax Springfield Street Railway committed,	14,584.19—	$2,460,304.82

Received of Collector as follows:—

State tax,	$182,027.18	
County tax,	105,266.09	
Bank tax,	28,134.82	
On account of City tax,	2,103,191.75	
Excise tax Springfield Street Railway,	14,584.19	
Abatements,	27,100.79—	$2,460,304.82

Rate—Fifteen dollars and fifty cents on one thousand dollars. Poll tax, two dollars.

Attest, WILLIAM C. MARSH, *City Auditor.*

TAXES—1913—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,	$255,920.00	
Amount of County tax committed,	116,422.70	
Amount of Bank tax committed,	25,108.66	
Amount of City tax committed,	2,383,606.98	
Amount of Excise tax Springfield Street Railway committed,	16,446.00—	$2,797,504.34

Received of Collector as follows:—

State tax,	$255,920.00	
County tax,	116,422.70	
Bank tax,	25,108.66	
Excise tax Springfield Street Railway,	16,446.00	
On account of City tax,	2,354,763.81	
Abatements,	28,843.17—	$2,797,504.34

Rate—Fifteen dollars and eighty cents on one thousand dollars. Poll tax, two dollars.

Attest, WM. G. McINTYRE, *City Auditor.*

TAXES—1914—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,	$279,912.50	
Amount of County tax committed,	115,373.85	
Amount of Bank tax committed,	26,846.80	
Amount of Excise tax Springfield Street Railway committed,	16,673.85	
Amount of City tax committed,	2,659,381.98—	$3,098,188.98

Received of Collector as follows:—

State tax,	$279,912.50	
County tax,	115,373.85	
Bank tax,	26,846.80	
Excise tax Springfield Street Railway,	16,673.85	
On account of City tax,	2,624,423.81	
Abatements,	34,958.17—	$3,098,188.98

Rate—Sixteen dollars and fifty cents on one thousand dollars. Poll tax, two dollars.

Attest, WM. G. McINTYRE, *City Auditor.*

TAXES—1915—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,	$311,902.50	
Amount of County tax committed,	123,240.23	
Amount of Bank tax committed,	23,673.83	
Amount of Excise tax Springfield Street Railway committed,	16,494.16	
Amount of City tax committed,	3,093,478.76—	$3,568,789.48

Received of Collector as follows:—

State tax,	$311,902.50	
County tax,	123,240.23	
Bank tax,	23,673.83	
Excise tax Springfield Street Railway,	16,494.16	
On account of City tax,	3,057,450.22	
Abatements,	36,028.54—	$3,568,789.48

Rate—Eighteen dollars and twenty cents on one thousand dollars. Poll tax, two dollars.

Attest, WM. G. McINTYRE, *City Auditor.*

TAXES—1916—CHARLES A. FRAZER, COLLECTOR.

Amount of State tax committed,	$296,240.00	
Amount of County tax committed,	150,706.77	
Amount of Bank tax committed,	18,131.04	
Amount of Excise tax Springfield Street Railway committed,	17,999.27	
Amount of City tax committed,	3,214,155.45—	$3,697,232.53

Received of Collector as follows:—

State tax,	$296,240.00	
County tax,	150,706.77	
Bank tax,	18,131.04	
Excise tax Springfield Street Railway,	17,999.27	
On account of City tax,	3,131,536.95	
Abatements,	82,618.50—	$3,697,232.53

Rate—Seventeen dollars and eighty cents on one thousand dollars. Poll tax, two dollars.

Attest, WM. G. McINTYRE, *City Auditor.*

TAXES—1917—CHARLES A. FRAZER, COLLECTOR.

Committed to City Collector:—

For State Tax,	$409,750.00	
" County tax,	176,227.17	
" Bank tax,	17,321.89	
" Excise tax Springfield Street Railway Company,	19,426.53	
" City tax,	2,984,841.32—	$3,607,566.91

Accounted for as follows:—

Received by City Collector,	$3,575,105.93	
Abated by Board of Assessors,	32,460.98—	$3,607,566.91

Rate—Seventeen dollars and eighty cents on one thousand dollars. Poll tax, two dollars.

Attest, WM. G. McINTYRE, *City Auditor.*

TAXES—1918—CHARLES A. FRAZER, COLLECTOR.

Committed to City Collector:—

For State tax,	$409,750.00	
" County tax,	183,386.40	
" Bank tax,	18,864.47	
" Excise tax Springfield Street Railway Company,	20,185.84	
" City tax,	3,216,177.59—	$3,848,364.30

Accounted for as follows:—

Received by City Collector,	$3,755,320.24	
Abated by Board of Assessors,	24,980.83	
Amount Uncollected,	68,063.23—	$3,848,364.30

Rate—Eighteen dollars and fifty cents on one thousand dollars. Poll tax, two dollars.

Attest, WM. G. McINTYRE, *City Auditor.*

TAXES—1919—CHARLES A. FRAZER, COLLECTOR.

Committed to City Collector:—

For State tax,	$476,660.80	
" County tax,	185,963.20	
" Bank tax,	21,748.41	
" Excise tax Springfield Street Railway Company,	15,196.98	
" City tax,	3,806,597.08—	$4,506,166.47

Accounted for as follows:—

Received by City Collector,	$3,539,052.59	
Abated by Board of Assessors,	20,621.37	
Amount Uncollected,	946,492.51—	$4,506,166.47

Rate—Twenty-one dollars and twenty cents on one thousand dollars. Poll tax, two dollars.

Attest, WM. G. McINTYRE, *City Auditor.*

ASSESSORS' VALUATION OF PROPERTY.

1852—Total valuation,		$5,180,210 00
1853—Total valuation,		5,509,660 00
1854—Total valuation,		7,762,250 00
1855—Total valuation,		8,409,870 00
1856—Total valuation,		8,284,060 00
1857—Total valuation,		8,558,720 00
1858—Real estate,	$5,702,040 00	
Personal estate,	2,679,100 00	8,381,140 00
1859—Real estate,	5,794,590 00	
Personal estate,	2,845,640 00	8,640,230 00
1860—Real estate,	5,962,480 00	
Personal estate,	2,955,800 00	8,918,280 00
1861—Real estate,	6,417,660 00	
Personal estate,	3,067,920 00	9,485,580 00
1862—Real estate,	6,719,500 00	
Personal estate,	3,039,390 00	9,758,890 00
1863—Real estate,	7,211,320 00	
Personal estate,	3,744,790 00	10,956,110 00
1864—Real estate,	8,536,490 00	
Personal estate,	2,871,430 00	11,407,920 00
1865—Real estate,	9,007,850 00	
Personal estate,	3,784,910 00	12,792,760 00
1866—Real estate,	10,241,540 00	
Personal estate,	4,755,480 00	14,997,020 00
1867—Real estate,	12,758,420 00	
Personal estate,	5,110,810 00	17,869,230 00
1868—Real estate,	15,125,520 00	
Personal estate,	5,322,640 00	20,448,160 00
1869—Real estate,	17,665,610 00	
Personal estate,	5,901,570 00	23,567,180 00
1870—Real estate,	18,443,990 00	
Personal estate,	6,070,070 00	24,514,060 00
1871—Real estate,	20,962,100 00	
Personal estate,	6,589,870 00	27,551,970 00

1872—Real estate,	$26,098,920 00	
Personal estate,	7,512,230 00	$33,611,150 00
1873—Real estate,	29,380,520 00	
Personal estate,	8,060,300 00	37,440,820 00
1874—Real estate,	30,489,850 00	
Personal estate,	7,846,928 00	38,336,778 00
1875—Real estate,	31,125,660 00	
Personal estate,	8,398,912 40	39,524,572 40
1876—Real estate,	27,647,560 00	
Personal estate,	7,461,896 86	35,109,456 86
1877—Real estate,	23,737,000 00	
Personal estate,	6,955,776 66	30,692,776 66
1878—Real estate,	22,746,330 00	
Personal estate,	6,637,845 72	29,384,175 72
1879—Real estate,	22,211,230 00	
Personal estate,	7,230,094 00	29,441,324 00
1880—Real estate,	22,856,020 00	
Personal estate,	8,292,655 00	31,148,675 00
1881—Real estate,	23,795,920 00	
Personal estate,	8,935,850 00	32,731,770 00
1882—Real estate,	25,084,420 00	
Personal estate,	9,198,258 00	34,282,678 00
1883—Real estate,	25,676,800 00	
Personal estate,	9,260,459 00	34,937,259 00
1884—Real estate,	26,301,150 00	
Personal estate,	8,792,666 00	35,093,816 00
1885—Real estate,	26,969,800 00	
Personal estate,	8,865,928 00	35,835,728 00
1886—Real estate,	27,638,760 00	
Personal estate,	9,143,442 00	36,782,202 00
1887—Real estate,	28,566,280 00	
Personal estate,	9,416,384 17	37,982,664 17
1888—Real estate,	30,323,140 00	
Personal estate,	9,540,115 14	39,863,255 14
1889—Real estate,	32,000,680 00	
Personal estate,	10,072,895 00	42,073,575 00
1890—Real estate,	33,795,860 00	
Personal estate,	10,697,773 00	44,493,633 00
1891—Real estate,	37,219,490 00	
Personal estate,	11,110,144 00	48,329,634 00

1892—Real estate,	$39,444,580 00	
Personal estate,	11,336,407 00	$50,780,987 00
1893—Real estate,	42,975,820 00	
Personal estate,	12,264,099 00	55,239,919 00
1894—Real estate,	44,083,900 00	
Personal estate,	12,365,525 00	56,449,425 00
1895—Real estate,	46,063,460 00	
Personal estate,	12,969,681 00	59,033,141 00
1896—Real estate,	48,344,280 00	
Personal estate,	13,071,811 00	61,416,091 00
1897—Real estate,	50,344,460 00	
Personal estate,	14,553,919 00	64,898,379 00
1898—Real estate,	52,022,570 00	
Personal estate,	13,677,143 00	65,699,713 00
1899—Real estate,	53,400,770 00	
Personal estate,	16,469,077 00	69,869,847 00
1900—Real estate,	55,676,320 00	
Personal estate,	16,682,161 00	72,358,481 00
1901—Real estate,	57,394,710 00	
Personal estate,	16,944,217 00	74,338,927 00
1902—Real estate,	58,411,160 00	
Personal estate,	16,424,905 40	74,836,065 40
1903—Real estate,	60,787,130 00	
Personal estate,	16,420,768 80	77,207,898 80
1904—Real estate,	62,145,950 00	
Personal estate,	16,722,107 80	78,868,057 80
1905—Real estate,	63,273,330 00	
Personal estate,	17,631,146 80	80,904,476 80
1906—Real estate,	68,239,990 00	
Personal estate,	18,265,191 00	86,505,181 00
1907—Real estate,	73,319,860 00	
Personal estate,	19,058,764 00	92,378,624 00
1908—Real estate,	76,965,520 00	
Personal estate,	20,132,788 00	97,098,308 00
1909—Real estate,	85,403,490 00	
Personal estate,	22,472,290 00	107,875,780 00
1910—Real estate,	94,984,660 00	
Personal estate,	24,097,118 00	119,081,778 00

1911—Real estate,	$102,393,230 00	
Personal estate,	25,659,804 00	$128,053,034 00
1912—Real estate	123,602,570 00	
Personal estate	25,927,780 00	149,530,350 00
1913—Real estate,	139,348,180 00	
Personal estate,	31,326,534 00	170,674,714 00
1914—Real estate,	147,180,360 00	
Personal estate,	32,948,691 00	180,129,051 00
1915—Real estate,	155,949,860 00	
Personal estate,	33,594,430 00	189,544,290 00
1916—Real estate,	162,945,320 00	
Personal estate,	39,004,692 00	201,950,012 00
1917—Real estate,	171,248,770 00	
Personal estate,	25,185,190 00	196,433,960 00
1918—Real estate,	175,128,240 00	
Personal estate,	26,771,589 00	201,899,829 00
1919—Real estate,	180,662,760 00	
Personal estate,	27,334,620 00	207,997,380 00

CITY OFFICERS.

CITY OFFICERS

CITY OFFICERS FOR 1852.

MAYOR—CALEB RICE.

ALDERMEN—Ward One, Samuel S. Day; Ward Two, Eliphalet Trask; Ward Three, E. D. Beach; Ward Four, George Dwight; Ward Five, Albert Morgan; Ward Six, Charles G. Rice; Ward Seven, Oliver B. Bannon; Ward Eight, F. A. Barton.

CLERK—Joseph Ingraham.

COMMON COUNCILMEN—President, Henry Morris; Ward One, J. B. M. Stebbins, Eleazer Ripley, John V. Jones; Ward Two, W. C. Sturtevant, Francis Bates, Henry Fuller, Jr.; Ward Three, Charles Merriam, Willis Phelps, Cicero Simons; Ward Four, Henry Morris, Alexander H. Avery, Benjamin F. Warner; Ward Five, William Hitchcock, Hiram Q. Sanderson, Nathaniel Cate; Ward Six, Henry Adams; Ward Seven, Ezra Kimberly; Ward Eight, Rodney Holt.

CLERK—Alanson Hawley.

CITY CLERK AND TREASURER—Joseph Ingraham.

CITY OFFICERS FOR 1853.

MAYOR—CALEB RICE.

ALDERMEN—Ward One, John B. Stebbins; Ward Two, Eliphalet Trask; Ward Three, Willis Phelps; Ward Four, Henry Vose; Ward Five, Titus Amadon; Ward Six, Drayton Perkins; Ward Seven, Joseph N. Sollace; Ward Eight, Harvey Foster.

CLERK—Joseph Ingraham.

COMMON COUNCILMEN—President, Henry Morris (resigned May 16). William Stowe; Ward One, Daniel Hitchcock, William Pynchon, Addison Day; Ward Two, Joseph C. Pynchon, Orrin Baker, E. W. Bond; Ward Three, Lombard Dale, T. M. Walker, William Stowe; Ward Four, Henry Morris, Alexander H. Avery, Edmund Palmer; Ward Five, Nathaniel Cate, William Dickinson, Daniel Collins; Ward Six, Henry Adams; Ward Seven, Ezra Kimberly; Ward Eight, William S. Barker.

CLERK—Alanson Hawley (resigned March 7), Samuel O. Gay.

CITY CLERK AND TREASURER—Joseph Ingraham.

CITY OFFICERS FOR 1854.

MAYOR—PHILOS B. TYLER.

ALDERMEN—Ward One, Wilson Eddy; Ward Two, Eliphalet Trask; Ward Three, Elkanah Barton; Ward Four, William L. Washburn; Ward Five, Edward F. Moseley; Ward Six, Roderick Lombard; Ward Seven, Joseph Lombard; Ward Eight, Rodney Holt.

CLERK—Joseph Ingraham.

COMMON COUNCILMEN—President, Samuel S. Day; Ward One, Asa Clark, Samuel S. Day, Thomas W. Wason; Ward Two, George H. Roberts, Henry A. Robinson, Roderick Ashley; Ward Three, Philo F. Wilcox, Lombard Dale, Frederick H. Harris; Ward Four, Daniel L. Harris, Tilly Haynes, Joseph B. Hopkins; Ward Five, Daniel Collins, G. W. Harrison, A. H. Clark; Ward Six, Edwin S. Hall; Ward Seven, Harris B. Johnson; Ward Eight, Horace Pease.

CLERK—Charles O. Chapin.

CITY CLERK AND TREASURER—Joseph Ingraham.

CITY OFFICERS FOR 1855.

MAYOR—ELIPHALET TRASK.

ALDERMEN—Ward One, James M. Blanchard; Ward Two, W. C. Sturtevant; Ward Three, David Smith; Ward Four, Daniel Reynolds; Ward Five, William E. Montague; Ward Six, Henry Adams; Ward Seven, James P. Chapman; Ward Eight, Harvey Foster.

CLERK—Joseph Ingraham.

COMMON COUNCILMEN—President, John M. Stebbins; Ward One, E. B. Haskell, John M. Stebbins, Stephen Morse; Ward Two, O. W. Wilcox, John Hooker, 3d, D. H. Brigham; Ward Three, Francis S. Graves, Rufus Elmer, E. W. Dickinson; Ward Four, Abel B. Howe, John W. Hunt, Jeremiah R. Cadwell; Ward Five, Nathaniel Howard, S. S. Holmes, E. F. Moseley; Ward Six, J. G. Capron; Ward Seven, Luther S. Lewis; Ward Eight, Samuel Webber.

CLERK—Thomas Chubbuck.

CITY CLERK AND TREASURER—Joseph Ingraham.

CITY OFFICERS FOR 1856.

MAYOR—ANSEL PHELPS, JR.

ALDERMEN—Ward One, Samuel S. Day; Ward Two, Henry Fuller, Jr.; Ward Three, Edmund Freeman; Ward Four, Stephen C. Bemis; Ward Five, Thomas H. Allen; Ward Six, Henry Alexander, Jr.; Ward Seven, Henry Reynolds; Ward Eight, Samuel Webber.

CLERK—Joseph Ingraham.

COMMON COUNCILMEN—President, James Kirkman; Ward One, Charles O. Russell, Chauncey L. Covell, Hervey Hills; Ward Two, O. W. Wilcox, Henry A. Chapin, Dexter H. Brigham; Ward Three, Dr. Nathan Adams, Charles L. Shaw, George Whitney; Ward Four, James Kirkham, George Walker, John W. Hunt; Ward Five, Otis A. Seamans, E. F. Moseley, Nelson Tyler; Ward Six, Elbridge Barton; Ward Seven, William Smith; Ward Eight, Milton Foster.

CLERK—Charles O. Chapin.

CITY CLERK AND TREASURER—Joseph Ingraham.

CITY OFFICERS FOR 1857.

MAYOR—ANSEL PHELPS, JR.

ALDERMEN—Ward One, Samuel S. Day; Ward Two, Henry Fuller, Jr.; Ward Three, Henry Alexander, Jr.; Ward Four, Stephen C. Bemis; Ward Five, Joseph Hannis; Ward Six, James Warner; Ward Seven, Henry Pomroy; Ward Eight, Samuel Webber, Jr.

CLERK—Joseph Ingraham.

COMMON COUNCILMEN—President, George Walker; Ward One, Charles O. Russell, Chauncey L. Covell, James Stebbins; Ward Two, Erastus Hayes, Lyman King, Francis B. Bacon; Ward Three, Marvin Lincoln, Henry Avery, John R. Hixon; Ward Four, George Walker, Samuel Leonard, William Birnie; Ward Five, Charles Woodman, Luther Upton, George A. Otis; Ward Six, Elbridge Barton; Ward Seven, William Smith; Ward Eight, George A. Cooley.

CLERK—Charles O. Chapin.

CITY CLERK AND TREASURER—Joseph Ingraham.

CITY OFFICERS FOR 1858.

MAYOR—ANSEL PHELPS, JR.

ALDERMEN—Ward One, Samuel S. Day; Ward Two, Henry Fuller, Jr.; Ward Three, Henry Alexander, Jr.; Ward Four, Stephen C. Bemis; Ward Five, Joseph Hannis; Ward Six, James Warner; Ward Seven, Henry Pomroy; Ward Eight, Samuel Webber, Jr. (resigned), E. A. Fuller.

CLERK—Joseph Ingraham.

COMMON COUNCILMEN—President, John R. Hixon; Ward One, Wilson Eddy, William Pynchon, William L. Smith; Ward Two, Randolph E. Ladd, Ambrose N. Merrick, Charles B. Trask; Ward Three, John R. Hixon, Henry A. Chapin, Gurdon Bill; Ward Four, Samuel Leonard, John W. Hunt, R. G. Shumway; Ward Five, Charles Woodman, George Swetland, John Brooks; Ward Six, Elbridge Barton; Ward Seven, Joseph Wheelock, Jr.; Ward Eight, Erastus King.

CLERK—Charles O. Chapin.

CITY CLERK AND TREASURER—Joseph Ingraham.

CITY OFFICERS FOR 1859.

MAYOR—WILLIAM B. CALHOUN.

ALDERMEN—Ward One, Chauncey L. Covell; Ward Two, Roger S. Moore; Ward Three, Edmund Freeman; Ward Four, Daniel L. Harris; Ward Five, William Hitchcock; Ward Six, J. G. Capron; Ward Seven, Horace Smith; Ward Eight, George W. Holt.

CLERK—Joseph Ingraham.

COMMON COUNCILMEN—President, A. N. Merrick (resigned in May), Samuel Leonard; Ward One, Joshua M. Harrington, Justin M. Cooley, John V. Jones; Ward Two, George H. Roberts, Lewis H. Taylor, Gurdon C. Judson; Ward Three, A. N. Merrick, Daniel Gay, Hosea C. Lombard; Ward Four, Samuel Leonard, Alfred Rowe, Reuben T. Safford; Ward Five, Theodore Bishop, Walter Maynard, Walter North; Ward Six, Isaac D. Gibbons; Ward Seven, Ransley Hall; Ward Eight, Warren L. Shaw.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Joseph Ingraham.

CITY OFFICERS FOR 1860.

MAYOR—DANIEL L. HARRIS.

ALDERMEN—Ward One, Edmund B. Haskell; Ward Two, Erastus Hayes; Ward Three, Franklin Chamberlain; Ward Four, John W. Hunt; Ward Five, William Hitchcock; Ward Six, John G. Capron; Ward Seven, William Foster; Ward Eight, George W. Holt.

CLERK—Horace C. Lee.

COMMON COUNCILMEN—President, N. A. Leonard; Ward One, Joshua M. Harrington, H. S. Noyes, J. H. Demond; Ward Two, Lewis H. Taylor, George R. Townsley, Charles A. Winchester; Ward Three, William L. Wilcox, John Hamilton, Clark W. Bryan; Ward Four, N. A. Leonard, William Birnie, Alfred Rowe; Ward Five, William Higley, A. F. Strong, Charles Woodman; Ward Six, Robert Crossett; Ward Seven, Orrin Lombard; Ward Eight, Andrew J. Plumer.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Horace C. Lee.

CITY OFFICERS FOR 1861.

MAYOR—STEPHEN C. BEMIS.

ALDERMEN—Ward One, Henry Gray; Ward Two, Ephraim W. Bond; Ward Three, H. N. Case; Ward Four, Nathaniel Howard; Ward Five, Charles Woodman; Ward Six, Amos Call; Ward Seven, William Smith; Ward Eight, A. J. Plumer.

CLERK—Horace C. Lee.

COMMON COUNCILMEN—President, N. A. Leonard; Ward One, H. J. Chapin, J. M. Cooley, J. H. Demond; Ward Two, Lewis H. Taylor, D. H. Brigham, F. B. Bacon; Ward Three, William L. Wilcox, John Hamilton, James M. Skiff; Ward Four, N. A. Leonard, John W. Bliss, Alfred Rowe; Ward Five, William Higley, Otis A. Seamans, A. W. Allen; Ward Six, Aaron C. Barton; Ward Seven, Henry Reynolds; Ward Eight, H. E. Moseley.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Horace C. Lee.

CITY OFFICERS FOR 1862.

MAYOR—STEPHEN C. BEMIS.

ALDERMEN—Ward One, Henry Gray; Ward Two, E. W. Bond; Ward Three, H. N. Case; Ward Four, T. W. Wason; Ward Five, Horace Kibbe; Ward Six, Horace Smith; Ward Seven, William Smith; Ward Eight, H. S. Evans.

CLERK—S. B. Spooner, Jr.

COMMON COUNCILMEN—President, N. A. Leonard; Ward One, Horace J. Chapin, L. O. Hanson, L. J. Powers; Ward Two, Sylvester Day, Tim Henry, Eli H. Patch; Ward Three, James M. Skiff, J. E. Taylor, A. F. Jennings; Ward Four, N. A. Leonard, Alfred Rowe, T. M. Walker; Ward Five, P. V. B. Havens, George K. Jacobs, George K. Charter; Ward Six, Aaron C. Barton; Ward Seven, Ezekiel Keith; Ward Eight, H. E. Moseley.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Samuel B. Spooner (resigned September 30), A. T. Folsom.

CITY OFFICERS FOR 1863.

MAYOR—HENRY ALEXANDER, JR.

ALDERMEN—Ward One, Justin M. Cooley; Ward Two, William Patton; Ward Three, William K. Baker; Ward Four, Daniel L. Harris; Ward Five, William Bodurtha; Ward Six, Horace Smith; Ward Seven, Virgil Perkins; Ward Eight, Andrew J. Plumer.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, N. A. Leonard; Ward One, N. W. Talcott, George S. Haskell, Luther Clark; Ward Two, O. H. Greenleaf, G. R. Townsley, John West; Ward Three, Aaron G. Lord, James M. Skiff, Francis S. Graves; Ward Four, N. A. Leonard, A. L. Soule, Henry S. Lee; Ward Five, Cheney Bigelow, George K. Charter (resigned), Charles Phelps, Orlando Chapin (resigned), William Collins; Ward Six, J. G. Chase; Ward Seven, C. P. L. Warner; Ward Eight, Hiram Warner.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1864.

MAYOR—HENRY ALEXANDER, JR.

ALDERMEN—Ward One, Norman W. Talcott; Ward Two, William Patton; Ward Three, Albert D. Briggs; Ward Four, Frederick H. Harris; Ward Five, Charles Barrows; Ward Six, Warren H. Wilkinson; Ward Seven, Virgil Perkins; Ward Eight, Harvey E. Moseley.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, N. A. Leonard; Ward One, Henry S. Hyde, John Mulligan, Charles H. Allen; Ward Two, O. H. Greenleaf, G. R. Townsley, J. F. Tannatt; Ward Three, Charles A. Winchester, W. H. Smith, A. N. Merrick; Ward Four, N. A. Leonard, A. L. Soule, Henry S. Lee; Ward Five, Charles Phelps, William Collins, S. W. Porter; Ward Six, L. H. Taylor; Ward Seven, Peter Valentine; Ward Eight, George Foster.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1865.

MAYOR—ALBERT D. BRIGGS.

ALDERMEN—Ward One, Henry S. Hyde; Ward Two, George R. Townsley; Ward Three, Otis Childs; Ward Four, Frederick H. Harris; Ward Five, Charles Barrows; Ward Six, Warren H. Wilkinson; Ward Seven, Virgil Perkins; Ward Eight, Andrew J. Plumer.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, Henry S. Lee; Ward One, John Mulligan, W. H. Allis, H. S. Noyes; Ward Two, Gideon Wells, John Olmsted, J. F. Tannatt; Ward Three, William H. Smith, J. F. Tapley, H. N. Tinkham; Ward Four, N. A. Leonard, Henry S. Lee, S. J. Hall; Ward Five, Charles Phelps, S. W. Porter, J. Q. A. Sexton; Ward Six, Gustavus D. Tapley; Ward Seven, Rawson Hathaway; Ward Eight, George Foster.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1866.

MAYOR—ALBERT D. BRIGGS.

ALDERMEN—Ward One, William Pynchon; Ward Two, D. H. Brigham; Ward Three, Tim Henry; Ward Four, F. H. Harris; Ward Five, G. W. Harrison; Ward Six, W. H. Wilkinson; Ward Seven, John G. Taylor (died), Rawson Hathaway; Ward Eight, John Severson.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, William L. Smith; Ward One, J. H. Demond, Warren Emerson, J. C. McIntosh; Ward Two, Gideon Wells, H. M. Morehouse, George Dwight, Jr.; Ward Three, H. N. Tinkham, William H. Smith, Joseph H. Damon; Ward Four, D. B. Wesson, William L. Smith, W. S. Marsh; Ward Five, Charles Phelps, S. W. Porter, Charles Chapman; Ward Six, Gustavus D. Tapley; Ward Seven, John M. Meggett; Ward Eight, Samuel Mills.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1867.

MAYOR—ALBERT D. BRIGGS.

ALDERMEN—Ward One, John Mulligan; Ward Two, Tim Henry; Ward Three, H. N. Tinkham; Ward Four, F. H. Harris; Ward Five, Samuel W. Porter; Ward Six, Amos Call; Ward Seven, Rawson Hathaway; Ward Eight, John Severson.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, William L. Smith; Ward One, J. C. McIntosh, Warren Emerson, J. H. Demond; Ward Two, H. M. Morehouse, C. S. Hurlbut, L. A. Tifft; Ward Three, Charles Marsh, H. K. W. Dickinson, P. S. Bailey; Ward Four, W. L. Smith, W. S. Marsh, L. J. Powers; Ward Five, Charles Chapman, A. H. Clark, J. S. Brown; Ward Six, Charles A. Call; Ward Seven, E. W. Clark; Ward Eight, Samuel Mills.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1868.

MAYOR—CHARLES A. WINCHESTER.

ALDERMEN—Ward One, John Mulligan; Ward Two, Tim Henry; Ward Three, H. N. Tinkham; Ward Four, W. S. Marsh; Ward Five, Samuel W. Porter; Ward Six, Amos Call; Ward Seven, E. W. Clark; Ward Eight, Milo Chapin.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, Henry S. Lee; Ward One, Warren Emerson, Josiah Bumstead, Roswell Lee; Ward Two, O. H. Greenleaf, Charles R. Ladd, Lewis A. Tifft; Ward Three, E. H. Patch, A. J. McIntosh, William H. Smith; Ward Four, Henry S. Lee, E. G. Norton, M. A. Clyde; Ward Five, Cyrus E. Buckland, Alden Warner, William R. Purple; Ward Six, George E. Howard; Ward Seven, Charles Gage; Ward Eight, George Swetland.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1869.

MAYOR—CHARLES A. WINCHESTER.

ALDERMEN—Ward One, J. M. Cooley; Ward Two, George Dwight; Ward Three, William H. Smith; Ward Four, W. S. Marsh; Ward Five, Joseph M. Hall; Ward Six, George E. Howard; Ward Seven, Charles Gage; Ward Eight, Charles J. Goodwin.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, Henry S. Lee; Ward One, George M. Atwater, Josiah Bumstead, John Olmsted; Ward Two, Charles R. Ladd, O. H. Greenleaf, C. C. Smith; Ward Three, A. J. McIntosh, E. H. Patch, J. H. Appleton; Ward Four, Henry S. Lee, E. G. Norton, L. J. Powers; Ward Five, Alden Warner, E. B. Haskell, W. P. Taylor; Ward Six, I. P. Dickinson; Ward Seven, William H. Pinney; Ward Eight, George Swetland.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1870.

MAYOR—WILLIAM L. SMITH.

ALDERMEN—Ward One, J. A. Rumrill; Ward Two, Eliphalet Trask; Ward Three, Dr. John Hooker; Ward Four, Willis Phelps; Ward Five, Joseph M. Hall; Ward Six, I. P. Dickinson; Ward Seven, William H. Pinney; Ward Eight, George Foster.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, Henry S. Lee; Ward One, Albert Holt, A. D. Day, C. B. Holbrook; Ward Two, George Dwight, Jr., James S. Bourke, David Legro; Ward Three, James E. McIntire, George W. Tapley, George S. Lewis; Ward Four, Henry S. Lee, Gurdon Bill, S. R. Phillips; Ward Five, Charles Phelps, William B. Miller, T. B. Wilson; Ward Six, George E. Howard; Ward Seven, John A. Hall; Ward Eight, Alfred S. Packard.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1871.

MAYOR—WILLIAM L. SMITH.

ALDERMEN—Ward One, Josiah Bumstead; Ward Two, Charles R. Ladd; Ward Three, Lawson Sibley; Ward Four, James M. Thompson; Ward Five, Richard F. Hawkins; Ward Six, Isaac P. Dickinson; Ward Seven, John A. Hall; Ward Eight, Noyes Barstow.

CLERK—Albert T. Folsom.

COMMON COUNCILMEN—President, Henry S. Lee; Ward One, Albert Holt, P. W. Brewster, F. J. Donahue; Ward Two, Milton Bradley, Tilly Haynes, R. Warren; Ward Three, B. C. English, S. B. Spooner, N. C. Newell; Ward Four, Henry S. Lee, Henry M. Phillips, E. A. Perkins; Ward Five, T. B. Wilson, J. C. Perry, E. B. Maynard; Ward Six, George E. Howard; Ward Seven, J. W. Lull; Ward Eight, George Swetland.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1872.

MAYOR—SAMUEL B. SPOONER.

ALDERMEN—Ward Two, Charles R. Ladd; Ward Three, William H. Smith; Ward Four, Emerson Wight; Ward Five, Joseph M. Hall, R. F. Hawkins; Ward Six, George E. Howard; Ward Seven, William H. Pinney; Ward Eight, Noyes Barstow.

CLERK—Albert T. Folsom.

COMMON COUNCILMEN—President, M. P. Knowlton; Ward One, F. J. Donahue, L. H. Powers, N. W. Fisk; Ward Two, O. H. Greenleaf, George W. Ray, Henry F. Trask; Ward Three, N. C. Newell, Samuel Palmer, George M. Smith; Ward Four, E. A. Perkins, H. M. Phillips, V. N. Taylor; Ward Five, M. P. Knowlton, E. B. Maynard, P. H. M. Brooks; Ward Six, E. A. Newell; Ward Seven, J. W. Lull; Ward Eight, W. L. Converse.

CLERK—Lucius E. Ladd.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1873.

MAYOR—SAMUEL B. SPOONER.

ALDERMEN—Ward One, H. S. Hyde; Ward Two, George W. Ray; Ward Three, E. H. Patch; Ward Four, Emerson Wight; Ward Five, R. F. Hawkins; Ward Six, George E. Howard; Ward Seven, L. A. Tifft; Ward Eight, Noyes Barstow.

CLERK—Albert T. Folsom.

COMMON COUNCILMEN—President, M. P. Knowlton; Ward One, Florence J. Donahue, Noyes W. Fisk, Albert Holt; Ward Two, O. H. Greenleaf, H. F. Trask, S. C. Warriner; Ward Three, Joseph K. Newell, Charles M. Lee, Charles M. King; Ward Four, Varnum N. Taylor, E. A. Perkins, H. M. Phillips; Ward Five, M. P. Knowlton, J. D. McKnight, W. G. Chamberlain; Ward Six, E. A. Newell; Ward Seven, B. F. Farrar; Ward Eight, John Warriner.

CLERK—John A Hall.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1874.

MAYOR—JOHN M. STEBBINS.

ALDERMEN—Ward One, Albert Holt; Ward Two, Hugh Donnelly; Ward Three, A. J. McIntosh; Ward Four, L. J. Powers; Ward Five, Albert W. Allen; Ward Six, I. P. Dickinson; Ward Seven, J. W. Lull; Ward Eight, Henry C. Fuller.

CLERK—Albert T. Folsom.

COMMON COUNCILMEN—President, T. B. Wilson; Ward One, D. J. Curtis, Horace Wheeler, James A. Byrnes; Ward Two, L. B. Lillie, M. L. Tourtellotte, P. J. Ryan; Ward Three, B. S. Haskins, Charles A. King, August Sheppert; Ward Four, J. H. Appleton, Homer Foot, Jr., D. J. Marsh; Ward Five, W. G. Chamberlain, T. B. Wilson, Benjamin Hannis; Ward Six, Daniel Schoonmaker; Ward Seven, E. W. Ladd; Ward Eight, John Warriner.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1875.

MAYOR—EMERSON WIGHT.

ALDERMEN—Ward One, Hinsdale Smith; Ward Two, D. H. Brigham; Ward Three, F. H. Fuller; Ward Four, L. J. Powers; Ward Five, W. G. Chamberlain; Ward Six, Amos Call; Ward Seven, Rawson Hathaway; Ward Eight, H. K. Wight.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, Henry S. Lee; Ward One, Horace Wheeler, James A. Byrnes, N. W. Fisk; Ward Two, S. E. Seymour, H. F. Trask, M. L. Tourtellotte; Ward Three, J. K. Newell, A. J. Plumer, J. K. Winter; Ward Four, Henry S. Lee, D. L. Harris, J. S. Carr; Ward Five, B. S. Haskins, Benjamin Hannis, E. S. Stacy; Ward Six, Daniel Schoonmaker; Ward Seven, E. P. Cook; Ward Eight, D. P. Woolson.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1876.

MAYOR—EMERSON WIGHT.

ALDERMEN—Ward One, N. W. Talcott; Ward Two, George Dwight; Ward Three, J. K. Newell; Ward Four, Henry S. Lee; Ward Five, N. I. Hawley; Ward Six, D. L. Swan; Ward Seven, Rawson Hathaway; Ward Eight, H. K. Wight.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, H. F. Trask; Ward One, John Mulligan, J. M. Cooley, J. J. Moore; Ward Two, Milton Bradley, H. F. Trask, M. L. Tourtellotte; Ward Three, H. N. Tinkham, J. F. Tapley, Elijah Nichols; Ward Four, W. S. Shurtleff, D. L. Harris, J. S. Carr; Ward Five, H. W. Phelps, Edwin McElwain, E. S. Stacy; Ward Six, R. R. McGregor; Ward Seven, Larkin Newell; Ward Eight, Samuel F. Smith.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1877.

MAYOR—EMERSON WIGHT.

ALDERMEN—Ward One, John Olmsted; Ward Two, George Dwight; Ward Three, J. F. Tapley; Ward Four, Henry S. Lee; Ward Five, N. I. Hawley (resigned), Benj. Hannis; Ward Six, D. L. Swan; Ward Seven, W. H. Pinney; Ward Eight, H. K. Wight.

CLERK—Albert T. Folsom.

COMMON COUNCILMEN—President, H. F. Trask; Ward One, John Mulligan, N. W. Fisk, L. H. Powers; Ward Two, H. F. Trask, M. L. Tourtellotte, George E. Frink; Ward Three, H. N. Tinkham, Elijah Nichols, George B. Smith; Ward Four, Daniel L. Harris, William S. Shurtleff, J. K. Newell; Ward Five, Edwin McElwain, John A. Hall, A. J. Wright; Ward Six, H. C. Puffer; Ward Seven, E. W. Ladd; Ward Eight, Milo Chapin.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1878.

MAYOR—EMERSON WIGHT.

ALDERMEN—Ward One, John Olmsted; Ward Two, George Dwight; Ward Three, J. F. Tapley; Ward Four, Henry S. Lee; Ward Five, John A. Hall; Ward Six, D. L. Swan; Ward Seven, W. H. Pinney; Ward Eight, H. K. Wight.

CLERK—Albert T. Folsom.

COMMON COUNCILMEN—President, A. J. Wright; Ward One, John Mulligan, L. H. Powers, E. Belding; Ward Two, Dr. H. G. Stickney, Dr. A. R. Rice, E. M. Bartlett; Ward Three, Elijah Nichols, George B. Smith, J. R. Smith; Ward Four, W. S. Shurtleff, J. K. Newell, H. A. Gould; Ward Five, A. J. Wright, N. W. Howard, S. L. Hodgdon; Ward Six, George R. Dickinson; Ward Seven, Edwin W. Ladd; Ward Eight, F. M. Bardwell.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1879.

MAYOR—LEWIS J. POWERS.

ALDERMEN—Ward One, John Olmsted; Ward Two, George Dwight; Ward Three, J. F. Tapley; Ward Four, George W. Tapley; Ward Five, Benjamin Hannis; Ward Six, George R. Dickinson; Ward Seven, E. W. Ladd; Ward Eight, H. K. Wight.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, J. R. Smith; Ward One, John Mulligan, E. Belding, J. W. Baldwin; Ward Two, E. H. Phelps, Horace Jacobs, F. A. Judd; Ward Three, J. R. Smith, Elijah Nichols, Frank E. Winter; Ward Four, Henry A. Gould, George B. Holbrook, C. J. Sanderson; Ward Five, N. W. Howard, S. L. Hodgdon, M. J. Chamberlain; Ward Six, E. M. Lombard; Ward Seven, Charles Taylor; Ward Eight, F. M. Bardwell.

CLERK— E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1880.

MAYOR—LEWIS J. POWERS.

ALDERMEN—Ward One, John Olmsted; Ward Two, S. C. Warriner; Ward Three, J. F. Tapley; Ward Four, George W. Tapley; Ward Five, Benjamin Hannis, Ward Six, George R. Dickinson; Ward Seven, E. W. Ladd; Ward Eight, H. K. Wight.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, Elijah Belding; Ward One, E. Belding, Ethan C. Robinson, Harlan P. Stone; Ward Two, Fred A. Judd, E. H. Young, E. M. Bartlett; Ward Three, Elijah Nichols, Frank E. Winter, Emory Meekins; Ward Four, George B. Holbrook, Charles J. Sanderson, William H. Haile; Ward Five, Nathaniel W. Howard, Sewall L. Hodgdon, James D. Gill; Ward Six, Edward M. Lombard; Ward Seven, Charles Taylor; Ward Eight, Frank M. Bardwell.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1881.

MAYOR—WILLIAM H. HAILE.

ALDERMEN—Ward One, Elijah Belding; Ward Two, Stephen E. Seymour; Ward Three, Elijah Nichols; Ward Four, Edward P. Chapin; Ward Five, Oscar D. Adams; Ward Six, Edward M. Lombard; Ward Seven, George Nye; Ward Eight, H. K. Wight.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, Charles J. Sanderson; Ward One, Harlan P. Stone, Hoyt E. Howard, Henry J. Beebe; Ward Two, Fred A. Judd, Edwin M. Bartlett, John Lobsitz; Ward Three, George P. Stebbins, Jacob C. Luts, Simpson Clark; Ward Four, Charles J. Sanderson, William B. Walker, Edmund P. Kendrick; Ward Five, James D. Gill, Henry Dana, James F. Brierly; Ward Six, Albert E. Foth; Ward Seven, William C. Bemis; Ward Eight, George Foster.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1882.

MAYOR—EDWIN W. LADD.

ALDERMEN—Ward One, Henry D. Carroll; Ward Two, Stephen E. Seymour; Ward Three, Elijah Nichols; Ward Four, Edward P. Chapin; Ward Five, Oscar D. Adams; Ward Six, Edward M. Lombard; Ward Seven, George Nye; Ward Eight, Davenport L. Fuller.

CLERK—Albert T. Folsom.

COMMON COUNCILMEN—President, Edmund P. Kendrick; Ward One, Harlan P. Stone, Henry J. Beebe, Ethan C. Robinson; Ward Two, Fred A. Judd, Frank M. Bugbee, Frank E. Carpenter; Ward Three, Simpson Clark, Jacob C. Lutz, James D. Parsons; Ward Four, Edmund P. Kendrick, James C. Alden, Edward C. Rogers; Ward Five, Henry Dana, Charles E. Dodge, Charles Fuller; Ward Six, George McGregory; Ward Seven, John S. Sanderson; Ward Eight, Edward D. Chapman.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1883.

MAYOR—HENRY M. PHILLIPS.

ALDERMEN—Ward One, Harlan P. Stone; Ward Two, Fred A. Judd; Ward Four, James Kirkham; Ward Four, James C. Alden; Ward Five, James D. Gill; Ward Six, Charles A. Call; Ward Seven, George Nye; Ward Eight, John S. Sanderson.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, E. P. Kendrick; Ward One, Charles McKay, J. F. Callanan, John L. Knight; Ward Two, Frank E. Carpenter, Frank M. Bugbee, James A. Bill, Jr.; Ward Three, Jacob C. Lutz, Simpson Clark, W. F. Cook; Ward Four, Edmund P. Kendrick, Edward C. Rogers. Thomas D. Lyon; Ward Five, George H. Wells, James Kimball, Whiteman T. Steere; Ward Six, Oscar S. Greenleaf; Ward Seven, George W. Hall; Ward Eight, John Rivers.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1884.

MAYOR—HENRY M. PHILLIPS.

ALDERMEN—Ward Two, Andrew Y. Beach; Ward Three, Jacob C. Lutz; Ward Four, George W. Tapley; Ward Five, Henry M. Brewster; Ward Six, Charles A. Call; Ward Seven, George Nye, John S. Sanderson; Ward Eight, Davenport L. Fuller.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, Edward C. Rogers; Ward One, Henry L. Whitcomb, John L. Knight, Patrick C. O'Connor; Ward Two, Hosea C. Lombard, James A. Bill, Jr., James N. Dodge; Ward Three, Simpson Clark, George F. Clark, James S. Adams; Ward Four, Edward C. Rogers, Charles L. Long, Thomas D. Lyon; Ward Five, George H. Wells, James Kimball, J. H. Hendrick; Ward Six, Oscar S. Greenleaf; Ward Seven, George W. Hall; Ward Eight, John Rivers.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1885.

MAYOR—HENRY M. PHILLIPS.

ALDERMEN—Ward One, John L. Knight; Ward Two, Andrew Y. Beach; Ward Three, Jacob C. Luts; Ward Four, Daniel P. Crocker; Ward Five, Charles Taylor; Ward Six, Charles A. Call; Ward Seven, John S. Sanderson; Ward Eight, George W. Miller.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, Charles L. Long; Ward One, George E. Frink, James F. Bidwell, Henry M. Castle; Ward Two, James A. Bill, Jr., Hosea C. Lombard, Edwin F. Lyford; Ward Three, Edgar C. Whittemore, Richard D. Whitney, John H. Clune; Ward Four, Henry H. Bowman, Charles L. Long, Alfred N. Mayo; Ward Five, George H. Wells, Joel H. Hendrick, James Kimball; Ward Six, Oscar S. Greenleaf; Ward Seven, Richard W. Pinney; Ward Eight, Horatio E. D. Green.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1886.

MAYOR—EDWIN D. METCALF.

ALDERMEN—President, Andrew Y. Beach; Ward One, James F. Bidwell; Ward Two, Andrew Y. Beach; Ward Three, George B. Holbrook; Ward Four, George W. Tapley; Ward Five, Joel H. Hendrick; Ward Six, Walter H. Wesson; Ward Seven, Richard W. Pinney; Ward Eight, George W. Miller.

CLERK—A. T. Folsom.

COMMON COUNCILMEN—President, Charles L. Long; Ward One, George E. Frink, Charles A. Fisk, R. Hale Smith; Ward Two, James A. Bill, Jr., Edwin F. Lyford, Samuel J. Whyte; Ward Three, John H. Clune, Claudius C. Margerum, William F. Callender; Ward Four, Charles L. Long, Henry H. Bowman, Alfred N. Mayo; Ward Five, Thomas S. Stewart, Edward S. Bradford, Marcus M. Kendall; Ward Six, William L. Dickinson; Ward Seven, George W. Hall; Ward Eight, Horatio E. D. Green.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1887.

MAYOR—E. B. MAYNARD.

ALDERMEN—President, James F. Bidwell; Ward One, James F. Bidwell; Ward Two, Frank M. Bugbee; Ward Three, William F. Callender; Ward Four, William H. Wright; Ward Five, Sherman D. Porter; Ward Six, William L. Dickinson; Ward Seven, Richard W. Pinney; Ward Eight, John Rivers.

CLERK—Albert T. Folsom.

COMMON COUNCILMEN—President, Henry H. Bowman; Ward One, Frederick H. Stebbins, John Dollan, Frank C. Leonard; Ward Two, Frank S. Crane, James A. Bill, Jr., Newrie D. Winter; Ward Three, Claudius C. Margerum, James E. Dunleavy, Howard N. Newell; Ward Four, Henry H. Bowman, William W. More, Charles E. Brown; Ward Five, Edward S. Bradford, Marcus M. Kendall, William C. Newell; Ward Six, Edward J. Flannery; Ward Seven, Landomer E. Pease; Ward Eight, James H. Morley.

CLERK—E. A. Newell.

CITY CLERK AND TREASURER—Albert T. Folsom.

CITY OFFICERS FOR 1888.

MAYOR—E. B. MAYNARD.

ALDERMEN—President, Frank M. Bugbee; Ward One, John C. McIntosh; Ward Two, Frank M. Bugbee; Ward Three, Lawson Sibley; Ward Four, William H. Wright; Ward Five, Sherman D. Porter; Ward Six, William L. Dickinson; Ward Seven, Richard W. Pinney; Ward Eight, John Rivers.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, Newrie D. Winter; Ward One, Frederick H. Stebbins, Frank C. Leonard, George W. Turner; Ward Two, Newrie D. Winter, Charles C. Parkhurst, Edward F. Tower; Ward Three, James E. Dunleavy, Frederick S. Newman, Leonard Schadt; Ward Four, William W. More, Charles E. Brown, George Leonard; Ward Five, Edward S. Bradford, Marcus M. Kendall, James W. Anderson; Ward Six, Edward J. Flannery; Ward Seven, Charles E. Ladd; Ward Eight, E. A. Grise.

CLERK—Tom Fitzgibbon.

CITY CLERK—E. A. Newell.

CITY TREASURER—E. T. Tifft.

CITY OFFICERS FOR 1889.

MAYOR—EDWARD S. BRADFORD.

ALDERMEN—President, John C. McIntosh; Ward One, John C. McIntosh; Ward Two, Charles C. Parkhurst; Ward Three, Herbert C. Puffer; Ward Four, John A. Murphy; Ward Five, John McFethries; Ward Six, Henry S. Dickinson; Ward Seven, George W. Hall; Ward Eight, Orson Moulton.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, George Leonard; Ward One, George W. Turner, Leroy Z. Cutler, William F. Ray; Ward Two, Waldo R. Forrester, Francke W. Dickinson, Dr. George E. Foster; Ward Three, Leonard Schadt, Jacob G. Lutz, John P. Casman; Ward Four, William W. More, George Leonard, Charles Van Vlack; Ward Five, Milan W. Bull, Ruel R. Nickerson, Thomas H. Benton; Ward Six, Cornelius W. Phillips; Ward Seven, Charles E. Ladd; Ward Eight, Loren W. King.

CLERK—Andrew O. McGarrett.

CITY CLERK—E. A. Newell.

CITY TREASURER—E. T. Tifft.

CITY OFFICERS FOR 1890.

MAYOR—EDWARD S. BRADFORD.

ALDERMEN—President, Henry S. Dickinson; Ward One, George W. Turner; Ward Two, Charles C. Parkhurst; Ward Three, George B. Holbrook; Ward Four, John A. Murphy; Ward Five, Edmund P. Kendrick; Ward Six, Henry S. Dickinson; Ward Seven, George W. Hall; Ward Eight, Orrin E. Tilley.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, George Leonard; Ward One, Leroy Z. Cutler, William F. Ray, Louis C. Hyde; Ward Two, Francke W. Dickinson, George D Fisk, John B. King; Ward Three, John P. Casman, Arthur A. Couch, George J. Seuss; Ward Four, George Leonard, Charles VanVlack, Frederick H. Gillett; Ward Five, Milan W. Bull, George H. Clark, George H. Kemater; Ward Six, Cornelius W. Phillips; Ward Seven, Benjamin C. Harvey; Ward Eight, Charles E. Jennings.

CLERK—Andrew O. McGarrett.

CITY CLERK—E. A. Newell.

CITY TREASURER—E. T. Tifft.

CITY OFFICERS FOR 1891.

MAYOR—EDWARD S. BRADFORD.

ALDERMEN—President, John A. Murphy; Ward One, Louis C. Hyde; Ward Two, Charles C. Parkhurst; Ward Three, George B. Holbrook; Ward Four, John A. Murphy; Ward Five, Edward H. Lathrop; Ward Six, Frederick Harris; Ward Seven, Benjamin C. Harvey; Ward Eight, Orrin E. Tilley.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, Francke W. Dickinson; Ward One, Henry E. Marsh, John McDonald, Charles H. Mulligan; Ward Two, Francke W. Dickinson, John B. King, Dwight O. Gilmore; Ward Three, George J. Seuss, Charles W. Turk, Jeremiah F. Mahoney; Ward Four, Charles Van Vlack, W. F. Adams, James D. Norton; Ward Five, Milan W. Bull, George H. Clark, George H. Kemater; Ward Six, George M. Stebbins; Ward Seven, Thomas A. Holland; Ward Eight, Charles E. Jennings.

CLERK—Andrew O. McGarrett.

CITY CLERK—E. A. Newell.

CITY TREASURER—E. T. Tifft.

CITY OFFICERS FOR 1892.

MAYOR—LAWSON SIBLEY.

ALDERMEN—President, Frederick Harris; Ward One, Louis C. Hyde; Ward Two, Frank E. Carpenter; Ward Three, Claudius C. Margerum; Ward Four, Charles M. Mather; Ward Five, Samuel D. Sherwood; Ward Six, Frederick Harris; Ward Seven, Benjamin C. Harvey; Ward Eight, Leonard B. Richardson.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, James D. Norton; Ward One, William P. Hayes, Charles H. Mulligan, Henry W. Sexton; Ward Two, Edwin A. Carter, Dwight O. Gilmore, James J. Sullivan; Ward Three, George J. Seuss, Jeremiah F. Mahoney, John Sharrocks; Ward Four, W. F. Adams, James D. Norton, Charles E. Stickney; Ward Five, William M. Gray, William A. Harris, Stillman L. Tuttle; Ward Six, George M. Stebbins; Ward Seven, Thomas A. Holland; Ward Eight, Henry A. Braman.

CLERK—Andrew O. McGarrett, (resigned)—Wm. E. Gilbert.

CITY CLERK—E. A. Newell.

CITY TREASURER—E. T. Tifft.

CITY OFFICERS FOR 1893.

MAYOR—EDMUND P. KENDRICK.

ALDERMEN—President, George Nye; Ward One, Olin H. Smith; Ward Two, Dwight O. Gilmore; Ward Three, Claudius C. Margerum; Ward Four, Henry H. Bowman; Ward Five, George Nye; Ward Six, Nathan D. Bill; Ward Seven, Benjamin C. Harvey; Ward Eight, Leonard B. Richardson.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, James D. Norton; Ward One, William P. Hayes, Charles H. Mulligan, Winford N. Caldwell; Ward Two, Walter G. Morse, Charles W. Perkins, George B. Rathbun; Ward Three, Harry P. Elsey, George F. Sessions, Charles Workheiser; Ward Four, W. F. Adams, James D. Norton, Charles E. Stickney; Ward Five, William A. Harris, Edwin S. Field, Frederick B. Miller; Ward Six, Eugene Young; Ward Seven, William H. Gage; Ward Eight, Merrill E. Streeter.

CLERK—William E. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—E. T. Tifft.

CITY OFFICERS FOR 1894.

MAYOR—EDMUND P. KENDRICK.

ALDERMEN—President, Henry H. Bowman; Ward One, Olin H. Smith; Ward Two, Dwight O. Gilmore; Ward Three, Gustave Remkus; Ward Four, Henry H. Bowman; Ward Five, George A. Russell; Ward Six, Claudius C. Margerum; Ward Seven, Daniel W. Ware; Ward Eight, Merrill E. Streeter.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, George F. Sessions; Ward One, William C. Hayes, Charles L. Burr, George F. Fuller; Ward Two, Maurice P. Cavanaugh, Charles W. Perkins, Frank H. Elwell; Ward Three, Harry P. Elsey, George F. Sessions, Robert A. Grant; Ward Four, Howard A. Gibbs, Robert A. Knight, Paul R. Hawkins; Ward Five, Edwin S. Field, Frederick B. Miller, Fred C. Wright; Ward Six, Edward C. Hamilton; Ward Seven, William S. Bemis; Ward Eight, Philip C. Sullivan.

CLERK—William E. Gilbert.

CITY CLERK—E. A. Newell.

CITY TREASURER—E. T. Tifft.

CITY OFFICERS FOR 1895.

MAYOR—CHARLES L. LONG.

ALDERMEN—President, George A. Russell; Ward One, George F. Fuller; Ward Two, Albert E. Foth; Ward Three, Gustave Remkus; Ward Four, Henry L. Gaylord; Ward Five, George A. Russell; Ward Six, Walter P. Goodenough; Ward Seven, Daniel W. Ware; Ward Eight, Merrill E. Streeter.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, Robert A. Knight; Ward One, Charles L. Burr, Lewis D. Robinson, Willard F. Tripp; Ward Two, Maurice P. Cavanaugh, Frank H. Elwell, Charles D. Rathbun; Ward Three, Adin W. Bangs, Robert A. Grant, George W. D. Upton; Ward Four, Howard A. Gibbs, Paul R. Hawkins, Robert A. Knight; Ward Five, Albert P. Casey, Augustus A. Howard, Frederick B. Miller; Ward Six, Edward C. Hamilton; Ward Seven, Charles E. Ladd; Ward Eight, John R. Reed.

CLERK—William E. Gilbert.

CITY CLERK—E. A. Newell.

CITY TREASURER—E. T. Tifft.

CITY OFFICERS FOR 1896.

MAYOR—NEWRIE D. WINTER.

ALDERMEN—President, Henry S. Dickinson; Ward One, Charles L. Burr; Ward Two, Dwight O. Gilmore; Ward Three, George J. Seuss; Ward Four, Henry S. Dickinson; Ward Five, Charles H. Parsons; Ward Six, Charles Rogers; Ward Seven, Charles E. Ladd; Ward Eight, Octave A. La Riviere.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, Maurice P. Cavanaugh; Ward One, Frank H. Bills, William J. McCann, Willard F. Tripp; Ward Two, Maurice P. Cavanaugh, Harry C. Collins, Charles T. Winchester; Ward Three, Henry D. Marsh, Frank D. Quilty, George W. D. Upton; Ward Four, Ralph W. Ellis, Zera W. Smith, Fred H. Sturtevant; Ward Five, Frank W. Barker, Augustus A. Howard, Edward R. Lee; Ward Six, Frank D. Kemp; Ward Seven, William W. Bartlett; Ward Eight, Charles O. Churchill.

CLERK—William E. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—E. T. Tifft.

CITY OFFICERS FOR 1897.

MAYOR—HENRY S. DICKINSON.

ALDERMEN—President, Dwight O. Gilmore; Ward One, Willard F. Tripp; Ward Two, Charles H. Mulligan; Ward Three, Dwight O. Gilmore; Ward Four, Ralph W. Ellis; Ward Five, Charles C. Lewis; Ward Six, Edward C. Hamilton; Ward Seven, Charles E. Brown; Ward Eight, Homer D. Packard.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, Frank W. Barker; Ward One, Orville A. Dodge, Lewis D. Robinson; Ward Two, Luke J. Coogan, Henry D. Shaw, Harry J. Vesper; Ward Three, Charles H. Dunham, Frank H. Elwell; Ward Four, Lewis F. Carr, Charles E. Newell; Ward Five, Frank W. Barker, Stanford L. Haynes; Ward Six, Fred A. Bearse, Dennis Casey, Jr.; Ward Seven, George A. Bacon, William W. Bartlett; Ward Eight, Charles O. Churchill, Alexander C. Methven, Fordis C. Parker.

CLERK—William E. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1898.

MAYOR—HENRY S. DICKINSON.

ALDERMEN—President, Dwight O. Gilmore; Ward One, Lewis D. Robinson; Ward Two, Charles H. Mulligan; Ward Three, Dwight O. Gilmore; Ward Four, Ralph W. Ellis; Ward Five, Charles C. Lewis; Ward Six, Edward C. Hamilton; Ward Seven, Charles E. Brown; Ward Eight, Homer D. Packard.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, Fordis C. Parker; Ward One, Orville A. Dodge, Franklin A. Latimer, Jr.; Ward Two, Luke J. Coogan, Matthew R. Mansfield, William A. Strange; Ward Three, Edward T. Davis, Harry H. Parkhurst; Ward Four, Lewis F. Carr, Charles E. Newell; Ward Five, Fordis C. Parker, Stanford L. Haynes; Ward Six, Fred A. Bearse, Samuel M. Jones; Ward Seven, George A. Bacon, Seth J. Buckland; Ward Eight, Albert E. W. Drake, Alexander C. Methven, William F. Mundell.

CLERK—William E. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1899.

MAYOR—DWIGHT O. GILMORE.

ALDERMEN—President, Charles H. Mulligan; Ward One, Franklin A. Latimer, Jr.,; Ward Two, Charles H. Mulligan; Ward Three, Frank H. Elwell; Ward Four, Edwin A. Blodgett; Ward Five, Fordis C. Parker; Ward Six, Fred A. Bearse; Ward Seven, Julius F. Carman; Ward Eight, Alexander C. Methven.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, Fred O. Clapp; Ward One, Fred O. Clapp, Edwin B. Woodin; Ward Two, Luke J. Coogan, Patrick J. McCarty, Patrick J. Mitchell; Ward Three, Gottlieb Baer, George W. D. Upton; Ward Four, Lincoln C. Haynes, William W. Tapley; Ward Five, Theodore F. Dwight, Charles A. Wright; Ward Six, Frederick S. Ladd, George Smith; Ward Seven, Albert G. Bennett, Jr., Seth J. Buckland; Ward Eight, Albert E. W. Drake, William F. Mundell, Woodward E. Murkland.

CLERK—William E. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1900.

MAYOR—WILLIAM P. HAYES.

ALDERMEN—President, Edwin A. Blodgett; Ward One, Fred O. Clapp; Ward Two, Henry W. Fitch; Ward Three, Frank H. Elwell; Ward Four, Edwin A. Blodgett; Ward Five, Fordis C. Parker; Ward Six, Fred A. Bearse; Ward Seven, Julius F. Carman; Ward Eight, Alexander C. Methven.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, Albert G. Bennett, Jr.; Ward One, Clifford P. Kibbe, William E. Sanderson; Ward Two, Patrick J. Mitchell, James E. Dunn, John M. Sullivan; Ward Three, George W. D. Upton, Napoleon L. Byron; Ward Four, William W. Tapley, F. Winthrop Edwards; Ward Five, Theodore F. Dwight, George Nye, Jr.; Ward Six, George Smith, Eugene M. Tinkham; Ward Seven, Albert G. Bennett, Jr., William A. Newton; Ward Eight, William F. Mundell, Oliver E. Hines, Everett E. Stone.

CLERK—William E. Gilbert (resigned), H. S. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1901.

MAYOR—WILLIAM R. HAYES.

ALDERMEN—President, Fred O. Clapp; Ward One, Fred O. Clapp; Ward Two, Henry W. Fitch; Ward Three, Henry D. Marsh; Ward Four, William W. Tapley; Ward Five, Henry H. Bosworth; Ward Six, Frank D. Kemp; Ward Seven, Albert G. Bennett, Jr.; Ward Eight, Edward J. Murphy.

CLERK—E. A. Newell.

COMMON COUNCILMEN—President, Everett E. Stone; Ward One, Clifford P. Kibbe, William E. Sanderson; Ward Two, Patrick J. Mitchell, James E. Dunn, Patrick J. Delaney; Ward Three, George H. McClean, William W. Warren; Ward Four, F. Winthrop Edwards, Henry P. Norris; Ward Five, Calvin S. Whitcomb, George Nye, Jr.; Ward Six, John J. Hamilton, Eugene M. Tinkham; Ward Seven, Henry G. Chapin, William A. Newton; Ward Eight, Oliver E. Hines, Everett E. Stone, William T. Webster.

CLERK—H. S. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1902.

MAYOR—RALPH W. ELLIS.

ALDERMEN—President, Fred O. Clapp; Ward One, Fred O. Clapp; Ward Two, Henry W. Fitch; Ward Three, Napoleon L. Byron; Ward Four, William W. Tapley; Ward Five, Henry H. Bosworth; Ward Six, Paul R. Hawkins; Ward Seven, Albert G. Bennett, Jr.; Ward Eight, Everett E. Stone.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, William E. Sanderson; Ward One, Clifford P. Kibbe, William E. Sanderson; Ward Two, Sylvester P. Callanan, Patrick J. Delaney, James E. Dunn; Ward Three, Charles F. Bogardus, George H. McClean; Ward Four, Henry P. Norris, Alfred F. H. Pillsbury; Ward Five, George Nye, Jr., Calvin S. Whitcomb; Ward Six, Joseph C. Allen, John J. Hamilton; Ward Seven, Henry G. Chapin, Edward O. Doten; Ward Eight, Henry S. Keyes, Charles S. Potter, William T. Webster.

CLERK—H. S. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1903.

MAYOR—EVERETT E. STONE.

ALDERMEN—President, Napoleon L. Byron; Ward One, William E. Sanderson; Ward Two, Willis A. Ford; Ward Three, Napoleon L. Byron; Ward Four, Henry P. Norris; Ward Five, Francke W. Dickinson; Ward Six, Joseph C. Allen; Ward Seven, Oscar S. Greenleaf; Ward Eight, Oliver E. Hines.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, Henry G. Chapin; Ward One, William C. Bartlett, Wayland V. James; Ward Two, Patrick J. Delaney, Thomas J. Burke, William H. Grady; Ward Three, George V. Lovely, Samuel H. Trask; Ward Four, Alfred F. H. Pillsbury, Arthur H. Rogers; Ward Five, William A. Dodge, Fred L. Safford; Ward Six, Clinton Gowdy, Albert R. Green; Ward Seven, Albert W. Allen, Henry G. Chapin; Ward Eight, Henry S. Keyes, Charles S. Potter, Edward P. Blague.

CLERK—H. S. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1904.

MAYOR—EVERETT E. STONE.

ALDERMEN—President, Napoleon L. Byron; Ward One, William E. Sanderson; Ward Two, Willis A. Ford; Ward Three, Napoleon L. Byron; Ward Four, Henry P. Norris; Ward Five, Francke W. Dickinson; Ward Six, Frederick S. Ladd; Ward Seven, Oscar S. Greenleaf; Ward Eight, William R. Sessions.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, Henry G. Chapin; Ward One, William C. Bartlett, Henry N. Bowman; Ward Two, Thomas J. Burke, William H. Grady, William F. Houlihan; Ward Three, George H. Hadd, Samuel H. Trask; Ward Four, Alfred F. H. Pillsbury, Arthur H. Rogers; Ward Five, William A. Dodge, Fred L. Safford; Ward Six, Albert R. Green, Frank E. Stacy; Ward Seven, Albert W. Allen, Henry G. Chapin; Ward Eight, Henry S. Keyes, Charles S. Potter, Howard O. Buck.

CLERK—H. S. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1905.

MAYOR—FRANCKE W. DICKINSON.

ALDERMEN—President, William E. Sanderson; Ward One, William E. Sanderson; Ward Two, Willis A. Ford; Ward Three, William S. Warriner; Ward Four, Henry P. Norris; Ward Five, Joseph P. Falt; Ward Six, Frederick S. Ladd; Ward Seven, Albert W. Allen; Ward Eight, William R. Sessions.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, Charles S. Potter; Ward One, Charles Adams, Henry N. Bowman; Ward Two, William F. Houlihan, William H. Grady, Michael J. Scully; Ward Three, George H. Hadd, George H. Crouss; Ward Four, Alfred F. H. Pillsbury, Arthur H. Rogers; Ward Five, William A. Dodge, Winthrop I. Davis; Ward Six, Frank E. Stacy, Henry R. Morrissey; Ward Seven, Fred R. Brown, Edwin G. Remkus; Ward Eight, Charles S. Potter, Howard O. Buck, Ralph Waldo Wight.

CLERK—H. S. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1906.

MAYOR—FRANCKE W. DICKINSON.

ALDERMEN—President, William E. Sanderson; Ward One, William E. Sanderson; Ward Two, Willis A. Ford; Ward Three, William S. Warriner; Ward Four, Arthur H. Rogers; Ward Five, Joseph P. Falt; Ward Six, Frederick S. Ladd; Ward Seven, Albert W. Allen; Ward Eight, Charles S. Potter.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, Ralph Waldo Wight; Ward One, Charles Adams, Henry N. Bowman; Ward Two, John J. Collins, William H. Grady, Michael J. Scully; Ward Three, George H. Hadd, George H. Crouss; Ward Four, Alfred F. H. Pillsbury, Arthur E. Corbin; Ward Five, William A. Dodge, Winthrop I. Davis; Ward Six, George D. Chamberlain, Henry R. Morrissey; Ward Seven, Fred R. Brown, John Lafayette Scott; Ward Eight, William Addison, Ralph Waldo Wight, Howard O. Buck (resigned).

CLERK—H. S. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1907.

MAYOR—WILLIAM E. SANDERSON.

ALDERMEN—President, Willis A. Ford; Ward One, Henry N. Bowman; Ward Two, Willis A. Ford; Ward Three, Geo. H. Crouss; Ward Four, Arthur H. Rogers; Ward Five, Alfred F. H. Pillsbury; Ward Six, Frederick S. Ladd; Ward Seven, Fred R. Brown; Ward Eight, Charles S. Potter.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, Ralph W. Wight; Ward One, Charles Adams, John Henry Curtiss; Ward Two, Geo. C. Connell, Michael J. Scully, John J. Collins; Ward Three, George H. Hadd, Albert A. Mathews; Ward Four, Edward P. Butts, Arthur E. Corbin; Ward Five, William A. Dodge, Winthrop I. Davis; Ward Six, Frank E. Stacy, George D. Chamberlain; Ward Seven, John L. Scott, Edward W. Maynard; Ward Eight, William Addison, Ralph W. Wight, George M. Howe.

CLERK—H. S. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1908.

MAYOR—WILLIAM E. SANDERSON.

ALDERMEN—President, Alfred F. H. Pillsbury; Ward One, Henry N. Bowman; Ward Two, Henry Lasker; Ward Three, Geo. H. Crouss, deceased—Nelson L. Elmer; Ward Four, Arthur H. Rogers; Ward Five, Alfred F. H. Pillsbury; Ward Six, George D. Chamberlain; Ward Seven, Fred R. Brown; Ward Eight, Ralph W. Wight.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, Frank E. Stacy; Ward One, Charles Adams, John Henry Curtiss; Ward Two, Michael J. Scully, John J. Collins, George C. Connell; Ward Three, George H. Hadd, Albert A. Mathews; Ward Four, Edward P. Butts, John A. Denison; Ward Five, Robert N. Ingersoll, J. Frank Drake; Ward Six, Frank E. Stacy, Harcourt Wesson Bull; Ward Seven, John L. Scott, Edward W. Maynard; Ward Eight, George M. Howe, Jay W. Nickels, John W. Superneaw.

CLERK—H. S. Gilbert.

CITY CLERK—Elijah A Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1909.

MAYOR—WILLIAM E. SANDERSON.

ALDERMEN—President, Henry N. Bowman; Ward One, Henry N. Bowman; Ward Two, Henry Lasker; Ward Three, Nelson L. Elmer; Ward Four, Arthur H. Rogers; Ward Five, William A. Dodge; Ward Six, George D. Chamberlain; Ward Seven, John L. Scott; Ward Eight, Ralph W. Wight.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, John A. Denison; Ward One, John Henry Curtiss, Joseph G. Merrick; Ward Two, John J. Collins, James A. Sullivan, John J. Walsh; Ward Three, George H. Hadd, Albert A. Mathews; Ward Four, John A. Denison, Everett E. Belding; Ward Five, Robert N. Ingersoll, J. Frank Drake; Ward Six, Frank E. Stacy, Harcourt Wesson Bull; Ward Seven, Julian R. Albee, Edward T. Broadhurst; Ward Eight, Charles M. Goodwin, John G. Maxfield, Jay W. Nickels.

CLERK—H. S. Gilbert.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1910.

MAYOR—EDWARD H. LATHROP.

ALDERMEN—President, Henry N. Bowman; Ward One, Henry N. Bowman; Ward Two, Henry Lasker; Ward Three, Nelson L. Elmer; Ward Four, John A. Denison; Ward Five, William A. Dodge; Ward Six, George D. Chamberlain; Ward Seven, John L. Scott; Ward Eight, Ralph W. Wight.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, J. Frank Drake; Ward One, Joseph G. Merrick, Wilfred S. Armitage; Ward Two, James A. Sullivan, John J. Walsh, Jeremiah McCarthy; Ward Three, Albert A. Mathews, George W. Streeter; Ward Four, Everett E. Belding, George Marston Leonard; Ward Five, Robert N. Ingersoll, J. Frank Drake; Ward Six, Matthew H. Farrell, Patrick W. Russell; Ward Seven, Julian R. Albee, Edward T. Broadhurst; Ward Eight, Charles M. Goodwin, John G. Maxfield, Miller J. Meeker.

CLERK—H. S. Gilbert (resigned), George J. Clark.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1911.

MAYOR—EDWARD H. LATHROP.

ALDERMEN—President, Ralph W. Wight; Ward One, Edward S. Goldthwaite; Ward Two, Henry Lasker; Ward Three, H. Goodman Waters; Ward Four, John A. Denison; Ward Five, William A. Dodge; Ward Six, Frank E. Stacy; Ward Seven, Charles B. Hitchcock; Ward Eight, Ralph W. Wight.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, J. Frank Drake; Ward One, Wilfred S. Armitage, George S. Cook; Ward Two, John P. Cannon, William H. Grady, Jeremiah McCarthy; Ward Three, George W. Streeter, George W. D. Upton; Ward Four, Everett E. Belding, George Marston Leonard; Ward Five, Charles A. Allbe, J. Frank Drake; Ward Six, Matthew H. Farrell, Patrick W. Russell; Ward Seven, Julian R. Albee, Edward T. Broadhurst; Ward Eight, Charles M. Goodwin, John G. Maxfield, Miller J. Meeker.

CLERK—George J. Clark.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1912.

MAYOR—EDWARD H. LATHROP.

ALDERMEN—President, John A. Denison; Ward One, Edward S. Goldthwaite; Ward Two, Henry Lasker; Ward Three, H. Goodman Waters; Ward Four, John A. Denison; Ward Five, William A. Dodge; Ward Six, Frank E. Stacy; Ward Seven, Charles B. Hitchcock; Ward Eight, John G. Maxfield.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, J. Frank Drake; Ward One, George S. Cook, Charles J. Jefferson; Ward Two, John P. Cannon, William H. Grady, John J. Walsh; Ward Three, George W. Streeter, George W. D. Upton; Ward Four, Robert P. Marsh, George W. Pike; Ward Five, Charles A. Allbe, J. Frank Drake; Ward Six, Henry Martens, Patrick W. Russell; Ward Seven, Julian R. Albee, Edward T. Broadhurst; Ward Eight, Giles Blague, Charles M. Goodwin, George A. Lanciaux.

CLERK—George J. Clark.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1913.

MAYOR—JOHN A. DENISON.

ALDERMEN—President, Henry Lasker; Ward One, George S. Cook; Ward Two, Henry Lasker; Ward Three, George H. McClean; Ward Four, Harry G. Webster; Ward Five, Robert N. Ingersoll; Ward Six, Frank E. Stacy; Ward Seven, Julian R. Albee; Ward Eight, John G. Maxfield.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, Edward T. Broadhurst; Ward One, Louis G. Erickson, Charles J. Jefferson; Ward Two, William H. Grady, John H. Morgan, John J. Walsh; Ward Three, Nelson W. Haskell, George W. Streeter; Ward Four, Robert P. Marsh, George W. Pike; Ward Five, Charles A. Allbe, Harold A. Wheat; Ward Six, Henry Martens, Thomas F. McGlynn (resigned), Patrick W. Russell; Ward Seven, Albert B. Franklin, Jr., Edward T. Broadhurst; Ward Eight, Giles Blague, George A. Lanciaux, William B. Sleigh.

CLERK—George J. Clark.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1914.

MAYOR—JOHN A. DENISON.

ALDERMEN—President, Frank E. Stacy; Ward One, George S. Cook; Ward Two, Albert P. Hare; Ward Three, George H. McClean; Ward Four, Harry G. Webster; Ward Five, Robert N. Ingersoll; Ward Six, Frank E. Stacy; Ward Seven, Julian R. Albee; Ward Eight, Giles Blague.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, Edward T. Broadhurst; Ward One, Louis G. Erickson, Lawrence P. Griffin; Ward Two, William H. Grady, John H. Morgan, John R. Doyle; Ward Three, Nelson W. Haskell, Fred A. Morrill; Ward Four, Robert P. Marsh, Albert D. Shaw; Ward Five, William Foster, Harold A. Wheat; Ward Six, Henry Martens, John J. O'Hare; Ward Seven, Albert B. Franklin, Jr., Edward T. Broadhurst; Ward Eight, Clinton W. Cowles, George A. Lanciaux, William B. Sleigh.

CLERK—George J. Clark.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1915.

MAYOR—FRANK E. STACY.

ALDERMEN—President, George S. Cook; Ward One, George S. Cook; Ward Two, Albert P. Hare; Ward Three, Nelson W. Haskell; Ward Four, Harry G. Webster; Ward Five, Samuel C. Hall; Ward Six, Henry Martens; Ward Seven, Albert B. Franklin, Jr.; Ward Eight, Giles Blague.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, Edward T. Broadhurst; Ward One, Emil J. Erard, Lawrence P. Griffin; Ward Two, William H. Grady, William J. Granfield, John R. Doyle; Ward Three, William L. Fuller, Fred A. Morrill; Ward Four, Robert P. Marsh, Albert D. Shaw; Ward Five, Seth H. Barlow, William Foster; Ward Six, Silvio Martinelli, William C. B. Merriam; Ward Seven, Edward T. Broadhurst, Henry H. Caswell; Ward Eight, Clinton W. Cowles, George A. Lanciaux, Albert B. Sanderson.

CLERK—George J. Clark.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1916.

MAYOR—FRANK E. STACY.

ALDERMEN—President, George S. Cook; Ward One, George S. Cook; Ward Two, Albert P. Hare; Ward Three, Nelson W. Haskell; Ward Four, Robert P. Marsh; Ward Five, Samuel C. Hall; Ward Six, Henry Martens; Ward Seven, Albert B. Franklin, Jr.; Ward Eight, Giles Blague.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, Albert D. Shaw; Ward One, Emil J. Erard, Lawrence P. Griffin; Ward Two, William H. Grady, William J. Granfield, John R. Doyle; Ward Three, William L. Fuller, Fred A. Morrill; Ward Four, Christopher G. Simpson, Albert D. Shaw; Ward Five, Seth H. Barlow, William Foster; Ward Six, Silvio Martinelli, Ambrose H. Reynolds; Ward Seven, Alfred H. Chapin, Henry H. Caswell; Ward Eight, Clinton W. Cowles, G. Clarence A. Fuller, Albert B. Sanderson.

CLERK—George J. Clark.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1917.

MAYOR—FRANK E. STACY.

ALDERMEN—President, Giles Blague; Ward One, John J. Lester; Ward Two, Albert P. Hare; Ward Three, Nelson W. Haskell; Ward Four, Robert P. Marsh; Ward Five, Samuel C. Hall; Ward Six, Henry Martens; Ward Seven, Henry H. Caswell; Ward Eight, Giles Blague.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, Albert D. Shaw; Ward One, C. Burton Gibbs, Lawrence P. Griffin; Ward Two, William H. Grady, John R. Doyle, John A. Fitzgerald; Ward Three, Fred A. Morrill, Harold P. Small; Ward Four, Albert D. Shaw, James P. Smith; Ward Five, Seth H. Barlow, Christopher G. Simpson; Ward Six, Ambrose H. Reynolds, Melvin D. Southworth; Ward Seven, Alfred H. Chapin, Arthur G. Taylor; Ward Eight, G. Clarence A. Fuller, Arthur Alfred Beth, George H. Decker.

CLERK—George J. Clark.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1918.

MAYOR—FRANK E. STACY.

ALDERMEN—President, Henry H. Caswell; Ward One, John J. Lester; Ward Two, Edwin F. Leonard; Ward Three, Nelson W. Haskell; Ward Four, Charles A. Allbe; Ward Five, James F. Walls; Ward Six, Melvin D. Southworth, resigned, Clifford D. Castle elected; Ward Seven, Henry H. Caswell; Ward Eight, G. Clarence A. Fuller, resigned, Fred A. Eldred elected.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, Christopher G. Simpson; Ward One, C. Burton Gibbs, Emile J. Erard; Ward Two, William H. Grady, John R. Doyle, John A. Fitzgerald; Ward Three, Ambrose H. Reynolds, Harold P. Small; Ward Four, Archer R. Simpson, James P. Smith; Ward Five, Seth H. Barlow, Christopher G. Simpson; Ward Six, George L. Fenn, Clifford D. Castle, resigned, Frank M. Kinney elected; Ward Seven, Frederick Kattler, Arthur G. Taylor; Ward Eight, Victor Bengle, Arthur Alfred Beth, George H. Decker.

CLERK—George J. Clark.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.

CITY OFFICERS FOR 1919.

MAYOR—ARTHUR A. ADAMS.

ALDERMEN—President, Henry H. Caswell; Ward One, John J. Lester; Ward Two, Edwin F. Leonard; Ward Three, George Edward Mansfield, Jr.; Ward Four, Charles A. Allbe; Ward Five, Seth H. Barlow; Ward Six, Clifford DeW. Castle; Ward Seven, Henry H. Caswell; Ward Eight, Arthur Alfred Beth.

CLERK—Elijah A. Newell.

COMMON COUNCILMEN—President, Christopher G. Simpson; Ward One, Charles McMorrow, Emile J. Erard; Ward Two, William H. Grady, John R. Doyle, Eugene J. Sweeney; Ward Three, Ambrose H. Reynolds, Max J. Baker; Ward Four, Archer R. Simpson, Richard C. Gaige; Ward Five, Eli F. Millett, Christopher G. Simpson; Ward Six, George L. Fenn, Frank M. Kinney; Ward Seven, Frederick Kattler, Arthur G. Taylor; Ward Eight, Victor Bengle, Thomas H. Benton, Vernon D. Odette.

CLERK—George J. Clark.

CITY CLERK—Elijah A. Newell.

CITY TREASURER—Eliphalet T. Tifft.